

LISTADO DE SECUENCIAS

<110> TAKEDA PHARMACEUTICAL COMPANY LIMITED

<120> COMPOSICIONES Y MÉTODOS DE TERAPIA CELULAR PARA MODULAR LA SEÑALIZACIÓN DEL TGF-B

<130> MIL-013W01

<140> PCT/IB2022/000063

<141> 2022-02-15

<150> 63/306,836

<151> 2022-02-04

<150> 63/149,628

<151> 2021-02-15

<160> 65

<170> PatentIn versión 3.5

<210> 1

<211> 246

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 1

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

				85						90					95			
Ala	Ser	Thr	Leu	Gly	Leu	Val	Leu	Asp	Ala	Met	Asp	Tyr	Trp	Gly	Gln			
			100					105					110					
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly			
		115					120					125						
Gly	Ser	Gly	Gly	Gly	Gly	Ser	Ala	Leu	Glu	Thr	Val	Leu	Thr	Gln	Ser			
	130					135					140							
Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys			
145					150					155					160			
Arg	Ala	Ser	Gln	Ser	Leu	Gly	Ser	Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln			
			165						170					175				
Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile	Tyr	Gly	Ala	Ser	Ser	Arg			
			180					185					190					
Ala	Pro	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp			
		195					200					205						
Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr			
	210					215					220							
Tyr	Cys	Gln	Gln	Tyr	Ala	Asp	Ser	Pro	Ile	Thr	Phe	Gly	Gln	Gly	Thr			
225					230					235					240			
Arg	Leu	Glu	Ile	Lys	Arg													
				245														

<210> 2
 <211> 244
 <212> PRT
 <213> Secuencia Artificial

 <220>
 <221> fuente
 <223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

 <400> 2

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Glu Thr Val Leu Thr Gln Ser Pro Gly
130 135 140

Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala
145 150 155 160

Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Pro
180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu
225 230 235 240

Glu Ile Lys Arg

<210> 3
<211> 244
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 3
Glu Thr Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Leu Gly Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Pro Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Asp Ser Pro
85 90 95

Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Val Gln Leu
115 120 125

Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val

130 135 140
 Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn Val Ile Ser Trp
 145 150 155 160
 Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Val Ile
 165 170 175
 Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe Lys Gly Arg Val
 180 185 190
 Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr Met Glu Leu Ser
 195 200 205
 Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ser Thr Leu
 210 215 220
 Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val
 225 230 235 240

Thr Val Ser Ser

<210> 4
 <211> 243
 <212> PRT
 <213> Secuencia Artificial

 <220>
 <221> fuente
 <223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 4
 Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser
 20 25 30
 Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45

Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
130 135 140

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
145 150 155 160

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
180 185 190

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
225 230 235 240

Glu Ile Lys

<210> 5
<211> 243

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 5

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Gly Gly Gly Gly Ser
100 105 110

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Leu Gln Val Gln Glu
115 120 125

Ser Gly Pro Gly Leu Val Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys
130 135 140

Thr Val Ser Gly Gly Ser Ile Ser Asn Ser Tyr Phe Ser Trp Gly Trp
145 150 155 160

Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly Ser Phe Tyr
165 170 175

Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser Leu Lys Ser Arg Ala Thr

180

185

190

Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe Ser Leu Lys Leu Ser Ser
 195 200 205

Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Pro Arg Gly Pro Thr
 210 215 220

Met Ile Arg Gly Val Ile Asp Ser Trp Gly Gln Gly Thr Leu Val Thr
 225 230 235 240

Val Ser Ser

<210> 6

<211> 122

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 6

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Thr Tyr
 20 25 30

Gly Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Trp Ile Glu Lys Thr Gly Asn Lys Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Ala Arg His Ile Lys Val Arg Ser Arg Asp Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 7
<211> 123
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 7
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Thr Tyr
20 25 30

Gly Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Trp Ile Glu Lys Thr Gly Asn Lys Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Ala Gly Arg His Ile Lys Val Arg Ser Arg Asp Phe Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 8
<211> 122
<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 8

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 9

<211> 249

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 9

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
130 135 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu Gln
145 150 155 160

Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser
165 170 175

Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys
180 185 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
195 200 205

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
210 215 220

Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp Gly

225

230

235

240

Gln Gly Thr Leu Val Thr Val Ser Ser
245

<210> 10

<211> 254

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 10

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Gly Thr Glu Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

Leu Glu Phe Val Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr
180 185 190

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
195 200 205

Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
210 215 220

Val Tyr Tyr Cys Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe
225 230 235 240

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
245 250

<210> 11
<211> 255
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 11
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Ser Glu Pro Lys
115 120 125

Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Gly Gly Gly Ser Ser
130 135 140

Gly Gly Gly Ser Gly Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
145 150 155 160

Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys
165 170 175

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
180 185 190

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
195 200 205

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
210 215 220

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
225 230 235 240

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
245 250 255

<210> 12

<211> 385

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 12

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Ser Glu Pro Lys
115 120 125

Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Gly Gly Gly Ser Ser
130 135 140

Gly Gly Gly Ser Gly Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
145 150 155 160

Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys
165 170 175

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
180 185 190

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
195 200 205

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
210 215 220

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
225 230 235 240

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Gly
245 250 255

Gly Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
260 265 270

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
275 280 285

Gly Phe Thr Phe Gly Thr Glu Gln Met Trp Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Glu Phe Val Ser Arg Ile Asp Ser Pro Gly Gly Arg
305 310 315 320

Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
325 330 335

Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
340 345 350

Asp Thr Ala Val Tyr Tyr Cys Ala Lys Arg Arg Pro Thr Gly Val Ser
355 360 365

Gly Thr Phe Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
370 375 380

Ser
385

<210> 13
<211> 238

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 13

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Ser Gly
115 120 125

Gly Gly Ser Gly Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
130 135 140

Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
145 150 155 160

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
165 170 175

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser

180	185	190
Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg		
195	200	205
Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu		
210	215	220
His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly		
225	230	235
<210> 14		
<211> 368		
<212> PRT		
<213> Secuencia Artificial		
<220>		
<221> fuente		
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"		
<400> 14		
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly		
1	5	10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu		
20	25	30
Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val		
35	40	45
Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val		
50	55	60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr		
65	70	75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys		
85	90	95
Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp		
100	105	110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Ser Gly
115 120 125

Gly Gly Ser Gly Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
130 135 140

Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
145 150 155 160

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
165 170 175

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
180 185 190

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
195 200 205

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
210 215 220

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Gly Gly
225 230 235 240

Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly
245 250 255

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
260 265 270

Phe Thr Phe Gly Thr Glu Gln Met Trp Trp Val Arg Gln Ala Pro Gly
275 280 285

Lys Gly Leu Glu Phe Val Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr
290 295 300

Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
305 310 315 320

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
325 330 335

Thr Ala Val Tyr Tyr Cys Ala Lys Arg Arg Pro Thr Gly Val Ser Gly
340 345 350

Thr Phe Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
355 360 365

<210> 15

<211> 376

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 15

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser

130						135						140				
Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Gly	Thr	Glu	Gln	
145					150					155					160	
Met	Trp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Phe	Val	Ser	
				165					170					175		
Arg	Ile	Asp	Ser	Pro	Gly	Gly	Arg	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	
			180					185					190			
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	
		195					200					205				
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	
	210					215					220					
Lys	Arg	Arg	Pro	Thr	Gly	Val	Ser	Gly	Thr	Phe	Tyr	Asp	Tyr	Trp	Gly	
225					230					235					240	
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Glu	Val	
				245					250					255		
Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	
			260					265					270			
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Gly	Thr	Glu	Gln	Met	
		275					280					285				
Trp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Phe	Val	Ser	Arg	
	290					295					300					
Ile	Asp	Ser	Pro	Gly	Gly	Arg	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	
305					310					315					320	
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	
				325					330					335		
Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	
			340					345					350			

Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp Gly Gln
355 360 365

Gly Thr Leu Val Thr Val Ser Ser
370 375

<210> 16

<211> 762

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 16

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
130 135 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu Gln
145 150 155 160

Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser
165 170 175

Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys
180 185 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
195 200 205

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
210 215 220

Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp Gly
225 230 235 240

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Glu Val
245 250 255

Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
260 265 270

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu Gln Met
275 280 285

Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser Arg
290 295 300

Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys Gly
305 310 315 320

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
325 330 335

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
340 345 350

Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp Gly Gln
355 360 365

Gly Thr Leu Val Thr Val Ser Ser Glu Val Gln Leu Leu Glu Ser Gly
370 375 380

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
385 390 395 400

Ser Gly Phe Thr Phe Gly Thr Glu Gln Met Trp Trp Val Arg Gln Ala
405 410 415

Pro Gly Lys Gly Leu Glu Phe Val Ser Arg Ile Asp Ser Pro Gly Gly
420 425 430

Arg Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
435 440 445

Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
450 455 460

Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Arg Arg Pro Thr Gly Val
465 470 475 480

Ser Gly Thr Phe Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
485 490 495

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu
500 505 510

Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
515 520 525

Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu Gln Met Trp Trp
530 535 540

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser Arg Ile Asp
545 550 555 560

Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
565 570 575

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
580 585 590

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Arg Arg
595 600 605

Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp Gly Gln Gly Thr
610 615 620

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
625 630 635 640

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
645 650 655

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Glu
660 665 670

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
675 680 685

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val
690 695 700

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
705 710 715 720

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
725 730 735

Ala Lys Arg Arg Pro Thr Gly Val Ser Gly Thr Phe Tyr Asp Tyr Trp
740 745 750

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
755 760

<210> 17

<211> 495

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 17

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln Ser
130 135 140

Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
145 150 155 160

Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
165 170 175

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
180 185 190

Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
210 215 220

Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr
225 230 235 240

Arg Leu Glu Ile Lys Gly Gly Gly Gly Ser Gln Val Gln Leu Val Gln
245 250 255

Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys
260 265 270

Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn Val Ile Ser Trp Val Arg
275 280 285

Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Val Ile Pro Ile
290 295 300

Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe Lys Gly Arg Val Thr Ile
305 310 315 320

Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr Met Glu Leu Ser Ser Leu
325 330 335

Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ser Thr Leu Gly Leu
340 345 350

Val Leu Asp Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
355 360 365

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
370 375 380

Ser Ala Leu Glu Thr Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu
385 390 395 400

Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Leu

405

410

415

Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
 420 425 430

Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Pro Gly Ile Pro Asp
 435 440 445

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
 450 455 460

Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala
 465 470 475 480

Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 485 490 495

<210> 18

<211> 500

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
 sintético"

<400> 18

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
 20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
 50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln Ser
130 135 140

Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
145 150 155 160

Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
165 170 175

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
180 185 190

Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
210 215 220

Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr
225 230 235 240

Arg Leu Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln
245 250 255

Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser
260 265 270

Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn Val
275 280 285

Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
290 295 300

Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe Lys
305 310 315 320

Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr Met
325 330 335

Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
340 345 350

Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln Gly
355 360 365

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
370 375 380

Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln Ser Pro
385 390 395 400

Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
405 410 415

Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys
420 425 430

Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala
435 440 445

Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
450 455 460

Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr
465 470 475 480

Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr Arg
485 490 495

Leu Glu Ile Lys
500

<210> 19
<211> 378
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 19
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln Ser
130 135 140

Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
145 150 155 160

Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
165 170 175

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
180 185 190

Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
210 215 220

Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr
225 230 235 240

Arg Leu Glu Ile Lys Gly Gly Ser Glu Pro Lys Ser Ser Asp Lys Thr
245 250 255

His Thr Cys Pro Pro Cys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly
260 265 270

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
275 280 285

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
290 295 300

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
305 310 315 320

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
325 330 335

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
340 345 350

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
355 360 365

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
370 375

<210> 20

<211> 631
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 20
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln Ser
130 135 140

Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
145 150 155 160

Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
165 170 175

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
180 185 190

Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
210 215 220

Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr
225 230 235 240

Arg Leu Glu Ile Lys Gly Gly Ser Glu Pro Lys Ser Ser Asp Lys Thr
245 250 255

His Thr Cys Pro Pro Cys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly
260 265 270

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
275 280 285

Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
290 295 300

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
305 310 315 320

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
325 330 335

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
340 345 350

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
355 360 365

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Gly Gly Gly Gly Ser Gly
370 375 380

Gly Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro
385 390 395 400

Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser
405 410 415

Ser Asn Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu
420 425 430

Trp Met Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln
435 440 445

Arg Phe Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr
450 455 460

Thr Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr
465 470 475 480

Tyr Cys Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp
485 490 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
500 505 510

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr
515 520 525

Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu
530 535 540

Ser Cys Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr
545 550 555 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser
565 570 575

Ser Arg Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly
580 585 590

Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala
595 600 605

Val Tyr Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln
610 615 620

Gly Thr Arg Leu Glu Ile Lys
625 630

<210> 21
<211> 361
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 21
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln Ser
130 135 140

Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
145 150 155 160

Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
165 170 175

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
180 185 190

Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
210 215 220

Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr
225 230 235 240

Arg Leu Glu Ile Lys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly Gly
245 250 255

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
260 265 270

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
275 280 285

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
290 295 300

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
305 310 315 320

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
325 330 335

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
340 345 350

Gln Lys Ser Leu Ser Leu Ser Pro Gly

355

360

<210> 22

<211> 614

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 22

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Asn
 20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg Phe
 50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr Tyr
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln Ser
 130 135 140

Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
 145 150 155 160

Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
165 170 175

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
180 185 190

Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
195 200 205

Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
210 215 220

Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly Thr
225 230 235 240

Arg Leu Glu Ile Lys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly Gly
245 250 255

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
260 265 270

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
275 280 285

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
290 295 300

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
305 310 315 320

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
325 330 335

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
340 345 350

Gln Lys Ser Leu Ser Leu Ser Pro Gly Gly Gly Gly Gly Ser Gly Gly
355 360 365

Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
370 375 380

Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser
385 390 395 400

Asn Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
405 410 415

Met Gly Gly Val Ile Pro Ile Val Asp Ile Ala Asn Tyr Ala Gln Arg
420 425 430

Phe Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Thr
435 440 445

Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr
450 455 460

Cys Ala Ser Thr Leu Gly Leu Val Leu Asp Ala Met Asp Tyr Trp Gly
465 470 475 480

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
485 490 495

Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Val Leu Thr Gln
500 505 510

Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser
515 520 525

Cys Arg Ala Ser Gln Ser Leu Gly Ser Ser Tyr Leu Ala Trp Tyr Gln
530 535 540

Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser
545 550 555 560

Arg Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
565 570 575

Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val
580 585 590

Tyr Tyr Cys Gln Gln Tyr Ala Asp Ser Pro Ile Thr Phe Gly Gln Gly
595 600 605

Thr Arg Leu Glu Ile Lys
610

<210> 23
<211> 491
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 23
Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser
20 25 30

Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
130 135 140

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
145 150 155 160

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
180 185 190

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
225 230 235 240

Glu Ile Lys Gly Gly Gly Gly Ser Gln Leu Gln Val Gln Glu Ser Gly
245 250 255

Pro Gly Leu Val Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val
260 265 270

Ser Gly Gly Ser Ile Ser Asn Ser Tyr Phe Ser Trp Gly Trp Ile Arg
275 280 285

Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly Ser Phe Tyr Tyr Gly
290 295 300

Glu Lys Thr Tyr Tyr Asn Pro Ser Leu Lys Ser Arg Ala Thr Ile Ser
305 310 315 320

Ile Asp Thr Ser Lys Ser Gln Phe Ser Leu Lys Leu Ser Ser Val Thr
325 330 335

Ala Ala Asp Thr Ala Val Tyr Tyr Cys Pro Arg Gly Pro Thr Met Ile
340 345 350

Arg Gly Val Ile Asp Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser

355 360 365
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 370 375 380
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 385 390 395 400
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser Tyr
 405 410 415
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 420 425 430
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 435 440 445
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 450 455 460
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
 465 470 475 480
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 485 490

<210> 24
 <211> 496
 <212> PRT
 <213> Secuencia Artificial

 <220>
 <221> fuente
 <223> /nota="Descripción de la Secuencia Artificial: Polipéptido
 sintético"

<400> 24
 Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser
 20 25 30

Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
130 135 140

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
145 150 155 160

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
180 185 190

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
225 230 235 240

Glu Ile Lys Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Leu Gln
245 250 255

Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu Thr Leu Ser
260 265 270

Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser Tyr Phe Ser
275 280 285

Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
290 295 300

Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
305 310 315 320

Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe Ser Leu Lys
325 330 335

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Pro Arg
340 345 350

Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly Gln Gly Thr
355 360 365

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
370 375 380

Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu
385 390 395 400

Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln
405 410 415

Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
420 425 430

Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro
435 440 445

Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
450 455 460

Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg
465 470 475 480

Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
485 490 495

<210> 25
<211> 376
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 25
Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser
20 25 30

Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
130 135 140

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
145 150 155 160

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
180 185 190

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
225 230 235 240

Glu Ile Lys Gly Gly Ser Glu Pro Lys Ser Ser Asp Lys Thr His Thr
245 250 255

Cys Pro Pro Cys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly Gly Gln
260 265 270

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
275 280 285

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
290 295 300

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
305 310 315 320

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
325 330 335

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
340 345 350

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln

355	360	365
Lys Ser Leu Ser Leu Ser Pro Gly		
370	375	
<210> 26		
<211> 627		
<212> PRT		
<213> Secuencia Artificial		
<220>		
<221> fuente		
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"		
<400> 26		
Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu		
1	5	10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser		
	20	25 30
Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu		
	35	40 45
Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser		
	50	55 60
Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe		
	65	70 75 80
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr		
	85	90 95
Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly		
	100	105 110
Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly		
	115	120 125
Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro		
	130	135 140

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
145 150 155 160

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
180 185 190

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
225 230 235 240

Glu Ile Lys Gly Gly Ser Glu Pro Lys Ser Ser Asp Lys Thr His Thr
245 250 255

Cys Pro Pro Cys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly Gly Gln
260 265 270

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
275 280 285

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
290 295 300

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
305 310 315 320

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
325 330 335

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
340 345 350

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
355 360 365

Lys Ser Leu Ser Leu Ser Pro Gly Gly Gly Gly Gly Ser Gly Gly Ser
370 375 380

Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
385 390 395 400

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser
405 410 415

Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
420 425 430

Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser
435 440 445

Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
450 455 460

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
465 470 475 480

Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly
485 490 495

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
500 505 510

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
515 520 525

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
530 535 540

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
545 550 555 560

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
565 570 575

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
580 585 590

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
595 600 605

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
610 615 620

Glu Ile Lys
625

<210> 27
<211> 359
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 27
Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser
20 25 30

Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
130 135 140

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
145 150 155 160

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
180 185 190

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
225 230 235 240

Glu Ile Lys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly Gly Gln Pro
245 250 255

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
260 265 270

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
275 280 285

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
290 295 300

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
305 310 315 320

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe

325

330

335

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 340 345 350

Ser Leu Ser Leu Ser Pro Gly
 355

<210> 28

<211> 610

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
 sintético"

<400> 28

Gln Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser
 20 25 30

Tyr Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45

Trp Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser
 50 55 60

Leu Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe
 65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95

Cys Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
130 135 140

Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg
145 150 155 160

Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
165 170 175

Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr
180 185 190

Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
195 200 205

Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
210 215 220

Gln Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val
225 230 235 240

Glu Ile Lys Gly Gly Gly Ser Ser Gly Gly Gly Ser Gly Gly Gln Pro
245 250 255

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
260 265 270

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
275 280 285

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
290 295 300

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
305 310 315 320

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
325 330 335

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
340 345 350

Ser Leu Ser Leu Ser Pro Gly Gly Gly Gly Gly Ser Gly Gly Ser Gln
355 360 365

Leu Gln Val Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu Thr
370 375 380

Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Asn Ser Tyr
385 390 395 400

Phe Ser Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
405 410 415

Ile Gly Ser Phe Tyr Tyr Gly Glu Lys Thr Tyr Tyr Asn Pro Ser Leu
420 425 430

Lys Ser Arg Ala Thr Ile Ser Ile Asp Thr Ser Lys Ser Gln Phe Ser
435 440 445

Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
450 455 460

Pro Arg Gly Pro Thr Met Ile Arg Gly Val Ile Asp Ser Trp Gly Gln
465 470 475 480

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
485 490 495

Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro Ala
500 505 510

Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala
515 520 525

Ser Gln Ser Val Arg Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly
530 535 540

Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly
545 550 555 560

Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
565 570 575

Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln
580 585 590

Gln Arg Ser Asn Trp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu
595 600 605

Ile Lys
610

<210> 29

<211> 120

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 29

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Gln Glu
20 25 30

Ser Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Ser Gly Thr Arg Ile Lys Gln Gly Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 30

<211> 124

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 30

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Thr Glu Tyr
20 25 30

Arg Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ala Ile Glu Pro Ile Gly His Arg Thr Tyr Tyr Ala Asn Ser Val
50 55 60

Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Gln Ala Pro Gly Glu Lys Trp Ala Arg Arg Trp Asp Leu Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 31

<211> 122

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 31

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Thr Asp
20 25 30

Gln Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Arg Ile Asp Ser Pro Gly Gly Arg Thr Tyr Tyr Ala Asn Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Arg Gln Pro Ala Gly Val Ser Gly Lys Tyr Val Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 32

<211> 162

<212> PRT

<213> Mus sp.

<400> 32

Ile Pro Pro His Val Pro Lys Ser Asp Val Glu Met Glu Ala Gln Lys
1 5 10 15

Asp Ala Ser Ile His Leu Ser Cys Asn Arg Thr Ile His Pro Leu Lys
20 25 30

His Phe Asn Ser Asp Val Met Ala Ser Asp Asn Gly Gly Ala Val Lys
35 40 45

Leu Pro Gln Leu Cys Lys Phe Cys Asp Val Arg Leu Ser Thr Cys Asp
50 55 60

Asn Gln Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ala Ile Cys Glu
65 70 75 80

Lys Pro His Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Lys Asn
85 90 95

Ile Thr Leu Glu Thr Val Cys His Asp Pro Lys Leu Thr Tyr His Gly
100 105 110

Phe Thr Leu Glu Asp Ala Ala Ser Pro Lys Cys Val Met Lys Glu Lys
115 120 125

Lys Arg Ala Gly Glu Thr Phe Phe Met Cys Ala Cys Asn Met Glu Glu
130 135 140

Cys Asn Asp Tyr Ile Ile Phe Ser Glu Glu Tyr Thr Thr Ser Ser Pro
145 150 155 160

Asp Leu

<210> 33
<211> 234
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 33
Leu Gln Cys Phe Cys His Leu Cys Thr Lys Asp Asn Phe Thr Cys Val
1 5 10 15

Thr Asp Gly Leu Cys Phe Val Ser Val Thr Glu Thr Thr Asp Lys Val
20 25 30

Ile His Asn Ser Met Cys Ile Ala Glu Ile Asp Leu Ile Pro Arg Asp
35 40 45

Arg Pro Phe Val Cys Ala Pro Ser Ser Lys Thr Gly Ser Val Thr Thr
50 55 60

Thr Tyr Cys Cys Asn Gln Asp His Cys Asn Lys Ile Glu Leu Pro Thr
65 70 75 80

Thr Val Lys Ser Ser Pro Gly Leu Gly Pro Val Glu Gly Gly Gly Gly
85 90 95

Ser Thr Ile Pro Pro His Val Gln Lys Ser Val Asn Asn Asp Met Ile
100 105 110

Val Thr Asp Asn Asn Gly Ala Val Lys Phe Pro Gln Leu Cys Lys Phe
115 120 125

Cys Asp Val Arg Phe Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser
130 135 140

Asn Cys Ser Ile Thr Ser Ile Cys Glu Lys Pro Gln Glu Val Cys Val
145 150 155 160

Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val Cys
165 170 175

His Asp Pro Lys Leu Pro Tyr His Asp Phe Ile Leu Glu Asp Ala Ala
180 185 190

Ser Pro Lys Cys Ile Met Lys Glu Lys Lys Lys Pro Gly Glu Thr Phe
195 200 205

Phe Met Cys Ser Cys Ser Ser Asp Glu Cys Asn Asp Asn Ile Ile Phe
210 215 220

Ser Glu Glu Tyr Asn Thr Ser Asn Pro Asp
225 230

<210> 34

<211> 186

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 34

Gln Cys Phe Cys His Leu Cys Thr Lys Asp Asn Phe Thr Cys Val Thr
1 5 10 15

Asp Gly Leu Cys Phe Val Ser Val Thr Glu Thr Thr Asp Lys Val Ile
20 25 30

His Asn Ser Met Cys Ile Ala Glu Ile Asp Leu Ile Pro Arg Asp Arg
35 40 45

Pro Phe Val Cys Ala Pro Ser Ser Lys Thr Gly Ser Val Thr Thr Thr
50 55 60

Tyr Cys Cys Asn Gln Asp His Cys Asn Gly Gly Gly Gly Ser Ala Val
65 70 75 80

Lys Phe Pro Gln Leu Cys Lys Phe Cys Asp Val Arg Phe Ser Thr Cys
85 90 95

Asp Asn Gln Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ser Ile Cys
100 105 110

Glu Lys Pro Gln Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Glu
115 120 125

Asn Ile Thr Leu Glu Thr Val Cys His Asp Pro Lys Leu Pro Tyr His
130 135 140

Asp Phe Ile Leu Glu Asp Ala Ala Ser Pro Lys Cys Ile Met Lys Glu
145 150 155 160

Lys Lys Lys Pro Gly Glu Thr Phe Phe Met Cys Ser Cys Ser Ser Asp
165 170 175

Glu Cys Asn Asp Asn Ile Ile Phe Ser Glu
180 185

<210> 35
<211> 238
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 35
Leu Gln Cys Phe Cys His Leu Cys Thr Lys Asp Asn Phe Thr Cys Glu
1 5 10 15

Thr Asp Gly Leu Cys Phe Val Ser Val Thr Glu Thr Thr Asp Lys Val
20 25 30

Ile His Asn Ser Met Cys Ile Ala Glu Ile Asp Leu Ile Pro Arg Asp
35 40 45

Arg Pro Phe Val Cys Ala Pro Ser Ser Lys Thr Gly Ala Val Thr Thr
50 55 60

Thr Tyr Cys Cys Asn Gln Asp His Cys Asn Lys Ile Glu Leu Pro Thr
65 70 75 80

Thr Gly Pro Phe Ser Glu Lys Gln Ser Ala Gly Leu Gly Pro Val Glu
85 90 95

Leu Gly Gly Gly Gly Ser Ile Pro Pro His Val Pro Lys Ser Val Asn
100 105 110

Ser Asp Val Met Ala Ser Asp Asn Gly Gly Ala Val Lys Leu Pro Gln
115 120 125

Leu Cys Lys Phe Cys Asp Val Arg Leu Ser Thr Cys Asp Asn Gln Lys
130 135 140

Ser Cys Met Ser Asn Cys Ser Ile Thr Ala Ile Cys Glu Lys Pro His
145 150 155 160

Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Lys Asn Ile Thr Leu
165 170 175

Glu Thr Val Cys His Asp Pro Lys Leu Thr Tyr His Gly Phe Thr Leu
180 185 190

Glu Asp Ala Ala Ser Pro Lys Cys Val Met Lys Glu Lys Lys Arg Ala
195 200 205

Gly Glu Thr Phe Phe Met Cys Ala Cys Asn Met Glu Glu Cys Asn Asp
210 215 220

Tyr Ile Ile Phe Ser Glu Glu Tyr Thr Thr Ser Ser Pro Asp
225 230 235

<210> 36

<211> 160

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 36

Gln Cys Phe Cys His Leu Cys Thr Lys Asp Asn Phe Thr Cys Glu Thr
1 5 10 15

Asp Gly Leu Cys Phe Val Ser Val Thr Glu Thr Thr Asp Lys Val Ile
20 25 30

His Asn Ser Met Cys Ile Ala Glu Ile Asp Leu Ile Pro Arg Asp Arg
35 40 45

Pro Phe Val Cys Ala Pro Ser Ser Lys Thr Gly Ala Val Thr Thr Thr
50 55 60

Tyr Cys Cys Asn Gln Asp His Cys Asn Gly Gly Gly Gly Ser Ala Val
65 70 75 80

Lys Leu Pro Gln Leu Cys Lys Phe Cys Asp Val Arg Leu Ser Thr Cys
85 90 95

Asp Asn Gln Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ala Ile Cys

100	105	110
Glu Lys Pro His Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Lys		
115	120	125
Asn Ile Thr Leu Glu Thr Val Cys His Asp Pro Lys Leu Thr Tyr His		
130	135	140
Gly Phe Thr Leu Glu Asp Ala Ala Ser Pro Lys Cys Val Met Lys Glu		
145	150	155
160		

<210> 37
 <211> 182
 <212> PRT
 <213> Secuencia Artificial

<220>
 <221> fuente
 <223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 37
Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly Ile Pro Pro His Val Pro Lys Ser Asp Val Glu Met
20 25 30

Glu Ala Gln Lys Asp Ala Ser Ile His Leu Ser Cys Asn Arg Thr Ile
35 40 45

His Pro Leu Lys His Phe Asn Ser Asp Val Met Ala Ser Asp Asn Gly
50 55 60

Gly Ala Val Lys Leu Pro Gln Leu Cys Lys Phe Cys Asp Val Arg Leu
65 70 75 80

Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn Cys Ser Ile Thr
85 90 95

Ala Ile Cys Glu Lys Pro His Glu Val Cys Val Ala Val Trp Arg Lys
100 105 110

Asn Asp Lys Asn Ile Thr Leu Glu Thr Val Cys His Asp Pro Lys Leu
115 120 125

Thr Tyr His Gly Phe Thr Leu Glu Asp Ala Ala Ser Pro Lys Cys Val
130 135 140

Met Lys Glu Lys Lys Arg Ala Gly Glu Thr Phe Phe Met Cys Ala Cys
145 150 155 160

Asn Met Glu Glu Cys Asn Asp Tyr Ile Ile Phe Ser Glu Glu Tyr Thr
165 170 175

Thr Ser Ser Pro Asp Leu
180

<210> 38
<211> 397
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 38
Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly Ile Pro Pro His Val Pro Lys Ser Asp Val Glu Met
20 25 30

Glu Ala Gln Lys Asp Ala Ser Ile His Leu Ser Cys Asn Arg Thr Ile
35 40 45

His Pro Leu Lys His Phe Asn Ser Asp Val Met Ala Ser Asp Asn Gly
50 55 60

Gly Ala Val Lys Leu Pro Gln Leu Cys Lys Phe Cys Asp Val Arg Leu
65 70 75 80

Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn Cys Ser Ile Thr
85 90 95

Ala Ile Cys Glu Lys Pro His Glu Val Cys Val Ala Val Trp Arg Lys
100 105 110

Asn Asp Lys Asn Ile Thr Leu Glu Thr Val Cys His Asp Pro Lys Leu
115 120 125

Thr Tyr His Gly Phe Thr Leu Glu Asp Ala Ala Ser Pro Lys Cys Val
130 135 140

Met Lys Glu Lys Lys Arg Ala Gly Glu Thr Phe Phe Met Cys Ala Cys
145 150 155 160

Asn Met Glu Glu Cys Asn Asp Tyr Ile Ile Phe Ser Glu Glu Tyr Thr
165 170 175

Thr Ser Ser Pro Asp Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
180 185 190

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
195 200 205

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ile Pro
210 215 220

Pro His Val Pro Lys Ser Asp Val Glu Met Glu Ala Gln Lys Asp Ala
225 230 235 240

Ser Ile His Leu Ser Cys Asn Arg Thr Ile His Pro Leu Lys His Phe
245 250 255

Asn Ser Asp Val Met Ala Ser Asp Asn Gly Gly Ala Val Lys Leu Pro
260 265 270

Gln Leu Cys Lys Phe Cys Asp Val Arg Leu Ser Thr Cys Asp Asn Gln
275 280 285

Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ala Ile Cys Glu Lys Pro
290 295 300

His Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Lys Asn Ile Thr

305 310 315 320

Leu Glu Thr Val Cys His Asp Pro Lys Leu Thr Tyr His Gly Phe Thr
325 330 335

Leu Glu Asp Ala Ala Ser Pro Lys Cys Val Met Lys Glu Lys Lys Arg
340 345 350

Ala Gly Glu Thr Phe Phe Met Cys Ala Cys Asn Met Glu Glu Cys Asn
355 360 365

Asp Tyr Ile Ile Phe Ser Glu Glu Tyr Thr Thr Ser Ser Pro Asp Leu
370 375 380

Gly Gly Gly Gly Ser Asp Tyr Lys Asp Asp Asp Asp Lys
385 390 395

<210> 39
<211> 384
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 39
Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly Ile Pro Pro His Val Pro Lys Ser Asp Val Glu Met
20 25 30

Glu Ala Gln Lys Asp Ala Ser Ile His Leu Ser Cys Asn Arg Thr Ile
35 40 45

His Pro Leu Lys His Phe Asn Ser Asp Val Met Ala Ser Asp Asn Gly
50 55 60

Gly Ala Val Lys Leu Pro Gln Leu Cys Lys Phe Cys Asp Val Arg Leu
65 70 75 80

Ser Thr Cys Asp Asn Gln Lys Ser Cys Met Ser Asn Cys Ser Ile Thr
85 90 95

Ala Ile Cys Glu Lys Pro His Glu Val Cys Val Ala Val Trp Arg Lys
100 105 110

Asn Asp Lys Asn Ile Thr Leu Glu Thr Val Cys His Asp Pro Lys Leu
115 120 125

Thr Tyr His Gly Phe Thr Leu Glu Asp Ala Ala Ser Pro Lys Cys Val
130 135 140

Met Lys Glu Lys Lys Arg Ala Gly Glu Thr Phe Phe Met Cys Ala Cys
145 150 155 160

Asn Met Glu Glu Cys Asn Asp Tyr Ile Ile Phe Ser Glu Glu Tyr Thr
165 170 175

Thr Ser Ser Pro Asp Leu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
180 185 190

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
195 200 205

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ile Pro
210 215 220

Pro His Val Pro Lys Ser Asp Val Glu Met Glu Ala Gln Lys Asp Ala
225 230 235 240

Ser Ile His Leu Ser Cys Asn Arg Thr Ile His Pro Leu Lys His Phe
245 250 255

Asn Ser Asp Val Met Ala Ser Asp Asn Gly Gly Ala Val Lys Leu Pro
260 265 270

Gln Leu Cys Lys Phe Cys Asp Val Arg Leu Ser Thr Cys Asp Asn Gln
275 280 285

Lys Ser Cys Met Ser Asn Cys Ser Ile Thr Ala Ile Cys Glu Lys Pro
290 295 300

His Glu Val Cys Val Ala Val Trp Arg Lys Asn Asp Lys Asn Ile Thr
305 310 315 320

Leu Glu Thr Val Cys His Asp Pro Lys Leu Thr Tyr His Gly Phe Thr
325 330 335

Leu Glu Asp Ala Ala Ser Pro Lys Cys Val Met Lys Glu Lys Lys Arg
340 345 350

Ala Gly Glu Thr Phe Phe Met Cys Ala Cys Asn Met Glu Glu Cys Asn
355 360 365

Asp Tyr Ile Ile Phe Ser Glu Glu Tyr Thr Thr Ser Ser Pro Asp Leu
370 375 380

<210> 40
<211> 92
<212> PRT
<213> Homo sapiens

<400> 40
Leu Gln Cys Phe Cys His Leu Cys Thr Lys Asp Asn Phe Thr Cys Val
1 5 10 15

Thr Asp Gly Leu Cys Phe Val Ser Val Thr Glu Thr Thr Asp Lys Val
20 25 30

Ile His Asn Ser Met Cys Ile Ala Glu Ile Asp Leu Ile Pro Arg Asp
35 40 45

Arg Pro Phe Val Cys Ala Pro Ser Ser Lys Thr Gly Ser Val Thr Thr
50 55 60

Thr Tyr Cys Cys Asn Gln Asp His Cys Asn Lys Ile Glu Leu Pro Thr
65 70 75 80

Thr Val Lys Ser Ser Pro Gly Leu Gly Pro Val Glu
85 90

<210> 41
<211> 39

<212> PRT
<213> Desconocida

<220>
<221> fuente
<223> /nota="Descripción de Desconocida:
Secuencia del dominio bisagra CD28"

<400> 41
Ile Glu Val Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn
1 5 10 15

Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro Leu
20 25 30

Phe Pro Gly Pro Ser Lys Pro
35

<210> 42
<211> 27
<212> PRT
<213> Desconocida

<220>
<221> fuente
<223> /nota="Descripción de Desconocida:
Secuencia del dominio transmembrana CD28"

<400> 42
Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu
1 5 10 15

Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val
20 25

<210> 43
<211> 66
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 43
Ile Glu Val Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn
1 5 10 15

Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro Leu
20 25 30

Phe Pro Gly Pro Ser Lys Pro Phe Trp Val Leu Val Val Val Gly Gly
35 40 45

Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile Phe
50 55 60

Trp Val
65

<210> 44
<211> 41
<212> PRT
<213> Desconocida

<220>
<221> fuente
<223> /nota="Descripción de Desconocida:
Secuencia del dominio de señal CD28"

<400> 44
Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr
1 5 10 15

Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro
20 25 30

Pro Arg Asp Phe Ala Ala Tyr Arg Ser
35 40

<210> 45
<211> 112
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 45
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 46
<211> 219
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 46
Ile Glu Val Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn
1 5 10 15

Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro Leu
20 25 30

Phe Pro Gly Pro Ser Lys Pro Phe Trp Val Leu Val Val Gly Gly
35 40 45

Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile Phe
50 55 60

Trp Val Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn
65 70 75 80

Met Thr Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr
85 90 95

Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg Ser Arg Val Lys Phe Ser
100 105 110

Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr
115 120 125

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
130 135 140

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn
145 150 155 160

Pro Gln Glu Gly Leu Phe Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
165 170 175

Ala Phe Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
180 185 190

His Asp Gly Leu Phe Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Phe
195 200 205

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
210 215

<210> 47

<211> 359

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 47

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Glu Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys

20					25					30					
Pro	Ser	Glu	Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Ala	Ser	Ile
		35					40					45			
Ser	His	Tyr	Tyr	Trp	Ser	Trp	Phe	Arg	Gln	Pro	Ala	Gly	Lys	Gly	Leu
	50					55					60				
Glu	Trp	Ile	Gly	Arg	Ile	Tyr	Pro	Ser	Gly	Ser	Thr	Ser	Tyr	Asn	Pro
65					70					75					80
Ser	Leu	Lys	Ser	Arg	Val	Ala	Met	Ser	Val	Asp	Thr	Pro	Lys	Asn	Gln
				85					90					95	
Phe	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
			100					105					110		
Tyr	Cys	Ala	Arg	Asp	Arg	Ser	Thr	Gly	Trp	Ser	Glu	Trp	Asn	Ser	Asp
		115					120					125			
Leu	Trp	Gly	Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ile	Glu	Val	Met
	130					135					140				
Tyr	Pro	Pro	Pro	Tyr	Leu	Asp	Asn	Glu	Lys	Ser	Asn	Gly	Thr	Ile	Ile
145						150					155				160
His	Val	Lys	Gly	Lys	His	Leu	Cys	Pro	Ser	Pro	Leu	Phe	Pro	Gly	Pro
				165					170					175	
Ser	Lys	Pro	Phe	Trp	Val	Leu	Val	Val	Val	Gly	Gly	Val	Leu	Ala	Cys
			180					185					190		
Tyr	Ser	Leu	Leu	Val	Thr	Val	Ala	Phe	Ile	Ile	Phe	Trp	Val	Arg	Ser
		195					200					205			
Lys	Arg	Ser	Arg	Leu	Leu	His	Ser	Asp	Tyr	Met	Asn	Met	Thr	Pro	Arg
	210					215					220				
Arg	Pro	Gly	Pro	Thr	Arg	Lys	His	Tyr	Gln	Pro	Tyr	Ala	Pro	Pro	Arg
225						230					235				240

Asp Phe Ala Ala Tyr Arg Ser Arg Val Lys Phe Ser Arg Ser Ala Asp
245 250 255

Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
260 265 270

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
275 280 285

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
290 295 300

Leu Phe Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu
305 310 315 320

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
325 330 335

Phe Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His
340 345 350

Met Gln Ala Leu Pro Pro Arg
355

<210> 48
<211> 353
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 48
Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Arg Tyr Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Lys Ile Arg His Asp Gly Gly Glu Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Thr Arg Asp Tyr Asn Lys Asp Tyr Trp Gly Gln Gly Thr
115 120 125

Leu Val Thr Val Ser Ser Ile Glu Val Met Tyr Pro Pro Pro Tyr Leu
130 135 140

Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val Lys Gly Lys His
145 150 155 160

Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp Val
165 170 175

Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu Leu Val Thr
180 185 190

Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg Ser Arg Leu Leu
195 200 205

His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr Arg
210 215 220

Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg
225 230 235 240

Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln
245 250 255

Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu
260 265 270

Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly
275 280 285

Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe Asn Glu Leu Gln
290 295 300

Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly Met Lys Gly Glu
305 310 315 320

Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln Gly Leu Ser Thr
325 330 335

Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln Ala Leu Pro Pro
340 345 350

Arg

<210> 49

<211> 526

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 49

Met Gly Thr Ser Leu Leu Cys Trp Met Ala Leu Cys Leu Leu Gly Ala
1 5 10 15

Asp His Ala Asp Ala Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu
20 25 30

Val Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr
35 40 45

Ala Phe Ser Ser Ser Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys
50 55 60

Gly Leu Glu Trp Ile Gly Arg Ile Tyr Pro Gly Asp Glu Asp Thr Asn
65 70 75 80

Tyr Ser Gly Lys Phe Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser
85 90 95

Ser Thr Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser
100 105 110

Ala Val Tyr Phe Cys Ala Arg Ser Leu Leu Tyr Gly Asp Tyr Leu Asp
115 120 125

Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ile Val Leu Thr
145 150 155 160

Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met
165 170 175

Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met His Trp Tyr Gln Gln
180 185 190

Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu
195 200 205

Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser
210 215 220

Tyr Phe Leu Thr Ile Asn Asn Met Glu Ala Glu Asp Ala Ala Thr Tyr
225 230 235 240

Tyr Cys Gln Gln Trp Asn Ile Asn Pro Leu Thr Phe Gly Ala Gly Thr
245 250 255

Lys Leu Glu Leu Lys Arg Ser Asp Pro Thr Thr Thr Pro Ala Pro Arg
260 265 270

Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg

275						280										285
Pro	Glu	Ala	Cys	Arg	Pro	Ala	Ala	Gly	Gly	Ala	Val	His	Thr	Arg	Gly	
	290					295					300					
Leu	Asp	Phe	Ala	Cys	Asp	Ile	Phe	Trp	Val	Leu	Trp	Val	Gly	Gly	Val	
305					310					315					320	
Leu	Ala	Cys	Tyr	Ser	Leu	Leu	Val	Thr	Val	Ala	Phe	Ile	Ile	Phe	Trp	
				325					330					335		
Val	Arg	Ser	Lys	Arg	Ser	Arg	Leu	Leu	His	Ser	Asp	Tyr	Met	Asn	Met	
			340					345					350			
Thr	Pro	Arg	Arg	Pro	Gly	Pro	Thr	Arg	Lys	His	Tyr	Gln	Pro	Tyr	Ala	
		355					360					365				
Pro	Pro	Arg	Asp	Phe	Ala	Ala	Tyr	Arg	Ser	Arg	Asp	Gln	Arg	Leu	Pro	
	370					375					380					
Pro	Asp	Ala	His	Lys	Pro	Pro	Gly	Gly	Gly	Ser	Phe	Arg	Thr	Pro	Ile	
385					390					395					400	
Gln	Glu	Glu	Gln	Ala	Asp	Ala	His	Ser	Thr	Leu	Ala	Lys	Ile	Arg	Val	
				405					410					415		
Lys	Phe	Ser	Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Gln	Gln	Gly	Gln	Asn	
			420					425					430			
Gln	Leu	Tyr	Asn	Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp	Val	
	435						440				445					
Leu	Asp	Lys	Arg	Arg	Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro	Arg	
	450					455					460					
Arg	Lys	Asn	Pro	Gln	Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp	Lys	
465					470					475					480	
Met	Ala	Glu	Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg	
				485					490					495		

Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys
500 505 510

Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
515 520 525

<210> 50

<211> 357

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 50

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe
35 40 45

Ser Arg Tyr Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Lys Ile Arg His Asp Gly Gly Glu Lys Tyr Tyr Val
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Thr Asp Tyr Thr Arg Asp Val Trp Gly Gln Gly Thr
115 120 125

Ala Val Thr Val Ser Ser Arg Ala Ala Ala Ile Glu Val Met Tyr Pro
130 135 140

Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val
145 150 155 160

Lys Gly Lys His Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys
165 170 175

Pro Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser
180 185 190

Leu Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg
195 200 205

Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro
210 215 220

Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe
225 230 235 240

Ala Ala Tyr Arg Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro
245 250 255

Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly
260 265 270

Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro
275 280 285

Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe
290 295 300

Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly
305 310 315 320

Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln
325 330 335

Gly Leu Ser Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln
340 345 350

Ala Leu Pro Pro Arg
355

<210> 51
<211> 357
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 51
Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ala Gln
20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Arg Tyr Trp Met Thr Trp Val Arg Gln Ala Pro Gly Gly Arg Leu
50 55 60

Glu Trp Val Ala Lys Ile Lys Tyr Asp Gly Ser Glu Lys Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
85 90 95

Ser Leu Tyr Leu Gln Met Asp Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Thr Arg Asp Tyr Asn Lys Asp Tyr Trp Gly Gln Gly Thr
115 120 125

Leu Val Thr Val Ser Ser Arg Ala Ala Ala Ile Glu Val Met Tyr Pro
130 135 140

Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val
145 150 155 160

Lys Gly Lys His Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys
165 170 175

Pro Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser
180 185 190

Leu Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg
195 200 205

Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro
210 215 220

Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe
225 230 235 240

Ala Ala Tyr Arg Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro
245 250 255

Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly
260 265 270

Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro
275 280 285

Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe
290 295 300

Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly
305 310 315 320

Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln
325 330 335

Gly Leu Ser Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln
340 345 350

Ala Leu Pro Pro Arg
355

<210> 52

<211> 363
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 52
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
20 25 30

Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Ala Ser Ile
35 40 45

Ser His Tyr Tyr Trp Ser Trp Phe Arg Gln Pro Ala Gly Lys Gly Leu
50 55 60

Glu Trp Ile Gly Arg Ile Tyr Pro Ser Gly Ser Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Val Ala Met Ser Val Asp Thr Pro Lys Asn Gln
85 90 95

Phe Ser Leu Asn Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
100 105 110

Tyr Cys Ala Arg Asp Arg Ser Thr Gly Trp Ser Glu Trp Asn Ser Asp
115 120 125

Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Arg Ala Ala Ala
130 135 140

Ile Glu Val Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn
145 150 155 160

Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro Leu
165 170 175

Phe Pro Gly Pro Ser Lys Pro Phe Trp Val Leu Val Val Val Gly Gly
180 185 190

Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile Phe
195 200 205

Trp Val Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn
210 215 220

Met Thr Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr
225 230 235 240

Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg Ser Arg Val Lys Phe Ser
245 250 255

Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr
260 265 270

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
275 280 285

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn
290 295 300

Pro Gln Glu Gly Leu Phe Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
305 310 315 320

Ala Phe Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
325 330 335

His Asp Gly Leu Phe Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Phe
340 345 350

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
355 360

<210> 53

<211> 357

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 53

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Arg Tyr Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ala Lys Ile Arg His Asp Gly Gly Glu Lys Tyr Tyr Pro
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn
85 90 95

Ser Leu Tyr Leu Gln Met Asp Asn Leu Arg Ala Glu Asp Thr Ala Met
100 105 110

Tyr Tyr Cys Thr Arg Asp Tyr Asn Lys Asp Leu Trp Gly Gln Gly Thr
115 120 125

Leu Val Thr Val Ser Ser Arg Ala Ala Ala Ile Glu Val Met Tyr Pro
130 135 140

Pro Pro Tyr Leu Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val
145 150 155 160

Lys Gly Lys His Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys
165 170 175

Pro Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser
180 185 190

Leu Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg

195	200	205
Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro		
210	215	220
Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe		
225	230	235
Ala Ala Tyr Arg Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro		
245	250	255
Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly		
260	265	270
Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro		
275	280	285
Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe		
290	295	300
Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly		
305	310	315
Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln		
325	330	335
Gly Leu Ser Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln		
340	345	350
Ala Leu Pro Pro Arg		
355		

<210> 54
 <211> 338
 <212> PRT
 <213> Secuencia Artificial

 <220>
 <221> fuente
 <223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

 <400> 54

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Lys Ile Lys Tyr Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Gly Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Phe Thr Arg Asp Val Trp Gly Gln Gly Thr Thr Val Thr
100 105 110

Val Ser Ser Arg Ala Ala Ala Ile Glu Val Met Tyr Pro Pro Pro Tyr
115 120 125

Leu Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val Lys Gly Lys
130 135 140

His Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp
145 150 155 160

Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu Leu Val
165 170 175

Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg Ser Arg Leu
180 185 190

Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr
195 200 205

Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr
210 215 220

Arg Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln
225 230 235 240

Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu
245 250 255

Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly
260 265 270

Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe Asn Glu Leu
275 280 285

Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly Met Lys Gly
290 295 300

Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln Gly Leu Ser
305 310 315 320

Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln Ala Leu Pro
325 330 335

Pro Arg

<210> 55

<211> 338

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 55

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Trp Met Thr Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Val

35					40					45					
Ala	Lys	Ile	Arg	Tyr	Asp	Gly	Gly	Glu	Lys	Tyr	Tyr	Val	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Thr	Asp	Phe	Thr	Arg	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr
			100					105					110		
Val	Ser	Ser	Arg	Ala	Ala	Ala	Ile	Glu	Val	Met	Tyr	Pro	Pro	Pro	Tyr
		115					120					125			
Leu	Asp	Asn	Glu	Lys	Ser	Asn	Gly	Thr	Ile	Ile	His	Val	Lys	Gly	Lys
	130					135					140				
His	Leu	Cys	Pro	Ser	Pro	Leu	Phe	Pro	Gly	Pro	Ser	Lys	Pro	Phe	Trp
145					150					155					160
Val	Leu	Val	Val	Val	Gly	Gly	Val	Leu	Ala	Cys	Tyr	Ser	Leu	Leu	Val
				165					170					175	
Thr	Val	Ala	Phe	Ile	Ile	Phe	Trp	Val	Arg	Ser	Lys	Arg	Ser	Arg	Leu
			180					185					190		
Leu	His	Ser	Asp	Tyr	Met	Asn	Met	Thr	Pro	Arg	Arg	Pro	Gly	Pro	Thr
		195					200					205			
Arg	Lys	His	Tyr	Gln	Pro	Tyr	Ala	Pro	Pro	Arg	Asp	Phe	Ala	Ala	Tyr
	210					215					220				
Arg	Ser	Arg	Val	Lys	Phe	Ser	Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Gln
225					230					235					240
Gln	Gly	Gln	Asn	Gln	Leu	Tyr	Asn	Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu
				245					250					255	

Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly
260 265 270

Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe Asn Glu Leu
275 280 285

Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly Met Lys Gly
290 295 300

Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln Gly Leu Ser
305 310 315 320

Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln Ala Leu Pro
325 330 335

Pro Arg

<210> 56

<211> 338

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 56

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Gly Arg Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Trp Val
35 40 45

Ala Lys Ile Lys Tyr Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Phe Thr Arg Asp Val Trp Gly Gln Gly Thr Thr Val Thr
100 105 110

Val Ser Ser Arg Ala Ala Ala Ile Glu Val Met Tyr Pro Pro Pro Tyr
115 120 125

Leu Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val Lys Gly Lys
130 135 140

His Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp
145 150 155 160

Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu Leu Val
165 170 175

Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg Ser Arg Leu
180 185 190

Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr
195 200 205

Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr
210 215 220

Arg Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln
225 230 235 240

Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu
245 250 255

Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly
260 265 270

Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe Asn Glu Leu
275 280 285

Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly Met Lys Gly
290 295 300

Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln Gly Leu Ser
305 310 315 320

Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln Ala Leu Pro
325 330 335

Pro Arg

<210> 57

<211> 338

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<400> 57

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Trp Val
35 40 45

Ala Lys Ile Lys Tyr Asp Gly Ser Glu Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asp Phe Thr Arg Asp Val Trp Gly Gln Gly Thr Thr Val Thr
100 105 110

Val Ser Ser Arg Ala Ala Ala Ile Glu Val Met Tyr Pro Pro Pro Tyr
115 120 125

Leu Asp Asn Glu Lys Ser Asn Gly Thr Ile Ile His Val Lys Gly Lys
130 135 140

His Leu Cys Pro Ser Pro Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp
145 150 155 160

Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu Leu Val
165 170 175

Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg Ser Arg Leu
180 185 190

Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr
195 200 205

Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr
210 215 220

Arg Ser Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln
225 230 235 240

Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu
245 250 255

Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly
260 265 270

Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Phe Asn Glu Leu
275 280 285

Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly Met Lys Gly
290 295 300

Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln Gly Leu Ser
305 310 315 320

Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln Ala Leu Pro

325

330

335

Pro Arg

<210> 58

<211> 22

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Péptido sintético"

<400> 58

Gly	Ser	Gly	Ala	Thr	Asn	Phe	Ser	Leu	Leu	Lys	Gln	Ala	Gly	Asp	Val
1				5				10						15	

Glu	Glu	Asn	Pro	Gly	Pro
			20		

<210> 59

<211> 5

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Péptido sintético"

<400> 59

Gly	Gly	Gly	Gly	Ser
1				5

<210> 60

<211> 10

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Péptido sintético"

<400> 60

Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser
1				5					10

<210> 61
<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Péptido sintético"

<400> 61
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 62
<211> 481
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 62
Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly Glu Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val
20 25 30

Arg Pro Gly Ser Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala
35 40 45

Phe Ser Ser Tyr Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly
50 55 60

Leu Glu Trp Ile Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr
65 70 75 80

Asn Gly Lys Phe Lys Gly Gln Ala Thr Leu Thr Ala Asp Lys Ser Ser
85 90 95

Ser Thr Ala Tyr Met Gln Leu Ser Gly Leu Thr Ser Glu Asp Ser Ala
100 105 110

Val Tyr Phe Cys Ala Arg Lys Thr Ile Ser Ser Val Val Asp Phe Tyr
115 120 125

Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly
130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Glu
145 150 155 160

Leu Thr Gln Ser Pro Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val
165 170 175

Ser Val Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Asn Val Ala Trp
180 185 190

Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Pro Leu Ile Tyr Ser Ala
195 200 205

Thr Tyr Arg Asn Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser
210 215 220

Gly Thr Asp Phe Thr Leu Thr Ile Thr Asn Val Gln Ser Lys Asp Leu
225 230 235 240

Ala Asp Tyr Phe Cys Gln Gln Tyr Asn Arg Tyr Pro Tyr Thr Ser Gly
245 250 255

Gly Gly Thr Lys Leu Glu Ile Lys Ile Glu Phe Met Tyr Pro Pro Pro
260 265 270

Tyr Leu Asp Asn Glu Arg Ser Asn Gly Thr Ile Ile His Ile Lys Glu
275 280 285

Lys His Leu Cys His Thr Gln Ser Ser Pro Lys Leu Phe Trp Ala Leu
290 295 300

Val Val Val Ala Gly Val Leu Phe Cys Tyr Gly Leu Leu Val Thr Val
305 310 315 320

Ala Leu Cys Val Ile Trp Thr Asn Ser Arg Arg Asn Arg Leu Leu Gln
325 330 335

Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Leu Thr Arg Lys
340 345 350

Pro Tyr Gln Pro Tyr Ala Pro Ala Arg Asp Phe Ala Ala Tyr Arg Pro
355 360 365

Arg Ala Lys Phe Ser Arg Ser Ala Glu Thr Ala Ala Asn Leu Gln Asp
370 375 380

Pro Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
385 390 395 400

Asp Val Leu Glu Lys Lys Arg Ala Arg Asp Pro Glu Met Gly Gly Lys
405 410 415

Gln Gln Arg Arg Arg Asn Pro Gln Glu Gly Val Tyr Asn Ala Leu Gln
420 425 430

Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Thr Lys Gly Glu
435 440 445

Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr
450 455 460

Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Thr Leu Ala Pro
465 470 475 480

Arg

<210> 63

<211> 485

<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 63

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Glu Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro
20 25 30

Gly Ser Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser
35 40 45

Ser Tyr Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu
50 55 60

Trp Ile Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly
65 70 75 80

Lys Phe Lys Gly Gln Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr
85 90 95

Ala Tyr Met Gln Leu Ser Gly Leu Thr Ser Glu Asp Ser Ala Val Tyr
100 105 110

Phe Cys Ala Arg Lys Thr Ile Ser Ser Val Val Asp Phe Tyr Phe Asp
115 120 125

Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Glu Leu Thr
145 150 155 160

Gln Ser Pro Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser Val
165 170 175

Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Asn Val Ala Trp Tyr Gln
180 185 190

Gln Lys Pro Gly Gln Ser Pro Lys Pro Leu Ile Tyr Ser Ala Thr Tyr
195 200 205

Arg Asn Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr

210		215		220													
Asp	Phe	Thr	Leu	Thr	Ile	Thr	Asn	Val	Gln	Ser	Lys	Asp	Leu	Ala	Asp		
225					230					235					240		
Tyr	Phe	Cys	Gln	Gln	Tyr	Asn	Arg	Tyr	Pro	Tyr	Thr	Ser	Gly	Gly	Gly		
				245					250					255			
Thr	Lys	Leu	Glu	Ile	Lys	Arg	Ala	Ala	Ala	Ile	Glu	Val	Met	Tyr	Pro		
			260					265					270				
Pro	Pro	Tyr	Leu	Asp	Asn	Glu	Lys	Ser	Asn	Gly	Thr	Ile	Ile	His	Val		
		275					280					285					
Lys	Gly	Lys	His	Leu	Cys	Pro	Ser	Pro	Leu	Phe	Pro	Gly	Pro	Ser	Lys		
	290					295					300						
Pro	Phe	Trp	Val	Leu	Val	Val	Val	Gly	Gly	Val	Leu	Ala	Cys	Tyr	Ser		
305					310					315							
Leu	Leu	Val	Thr	Val	Ala	Phe	Ile	Ile	Phe	Trp	Val	Arg	Ser	Lys	Arg		
				325					330					335			
Ser	Arg	Leu	Leu	His	Ser	Asp	Tyr	Met	Asn	Met	Thr	Pro	Arg	Arg	Pro		
			340					345					350				
Gly	Pro	Thr	Arg	Lys	His	Tyr	Gln	Pro	Tyr	Ala	Pro	Pro	Arg	Asp	Phe		
		355					360					365					
Ala	Ala	Tyr	Arg	Ser	Arg	Val	Lys	Phe	Ser	Arg	Ser	Ala	Asp	Ala	Pro		
	370					375					380						
Ala	Tyr	Gln	Gln	Gly	Gln	Asn	Gln	Leu	Tyr	Asn	Glu	Leu	Asn	Leu	Gly		
385					390					395					400		
Arg	Arg	Glu	Glu	Tyr	Asp	Val	Leu	Asp	Lys	Arg	Arg	Gly	Arg	Asp	Pro		
				405					410					415			
Glu	Met	Gly	Gly	Lys	Pro	Arg	Arg	Lys	Asn	Pro	Gln	Glu	Gly	Leu	Phe		
			420					425					430				

Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Phe Ser Glu Ile Gly
435 440 445

Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Phe Gln
450 455 460

Gly Leu Ser Thr Ala Thr Lys Asp Thr Phe Asp Ala Leu His Met Gln
465 470 475 480

Ala Leu Pro Pro Arg
485

<210> 64
<211> 50
<212> PRT
<213> Secuencia Artificial

<220>
<221> fuente
<223> /nota="Descripción de la Secuencia Artificial: Polipéptido
sintético"

<220>
<221> SITE
<222> (1)..(50)
<223> /nota="Esta secuencia puede abarcar 1-10 unidades de repetición
'Gly Gly Gly Gly Ser'"

<400> 64
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser
50

<210> 65
<211> 40
<212> PRT

<213> Secuencia Artificial

<220>

<221> fuente

<223> /nota="Descripción de la Secuencia Artificial: Polipéptido sintético"

<400> 65

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser
35 40