

LISTADO DE SECUENCIAS

<110> ACCELERON PHARMA INC.

<120> PROTEÍNAS ACTRII Y USOS DE LAS MISMAS

<130> 1848179-0002-142-WO1

<140> PCT/US2022/033007

<141> 2022-06-10

<150> 63/209,871

<151> 2021-06-11

<160> 42

<170> Versión PatentIn 3.5

<210> 1

<211> 513

<212> PRT

<213> Homo sapiens

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Phe	Asn	Ala	Asn	Trp	Glu	Lys	Asp	Arg	Thr	Asn	Gln	Thr	Gly	Val	Glu
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Pro	Cys	Tyr	Gly	Asp	Lys	Asp	Lys	Arg	Arg	His	Cys	Phe	Ala	Thr	Trp
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Lys	Asn	Ile	Ser	Gly	Ser	Ile	Glu	Ile	Val	Lys	Gln	Gly	Cys	Trp	Leu
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Asp	Asp	Ile	Asn	Cys	Tyr	Asp	Arg	Thr	Asp	Cys	Val	Glu	Lys	Lys	Asp
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Ser	Pro	Glu	Val	Tyr	Phe	Cys	Cys	Cys	Glu	Gly	Asn	Met	Cys	Asn	Glu
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Lys	Phe	Ser	Tyr	Phe	Pro	Glu	Met	Glu	Val	Thr	Gln	Pro	Thr	Ser	Asn
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Val Pro Leu Met Leu Ile Ala Gly Ile Val Ile Cys Ala Phe Trp Val

145																
Tyr	Arg	His	His	Lys	Met	Ala	Tyr	Pro	Pro	Val	Leu	Val	Pro	Thr	Gln	
				165					170					175		
Asp	Pro	Gly	Pro	Pro	Pro	Pro	Ser	Pro	Leu	Leu	Gly	Leu	Lys	Pro	Leu	
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Gln	Leu	Leu	Glu	Val	Lys	Ala	Arg	Gly	Arg	Phe	Gly	Cys	Val	Trp	Lys	
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Asp	Lys	Gln	Ser	Trp	Gln	Asn	Glu	Tyr	Glu	Val	Tyr	Ser	Leu	Pro	Gly	
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Met	Lys	His	Glu	Asn	Ile	Leu	Gln	Phe	Ile	Gly	Ala	Glu	Lys	Arg	Gly	
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Thr	Ser	Val	Asp	Val	Asp	Leu	Trp	Leu	Ile	Thr	Ala	Phe	His	Glu	Lys	
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Leu	Cys	His	Ile	Ala	Glu	Thr	Met	Ala	Arg	Gly	Leu	Ala	Tyr	Leu	His	
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Glu	Asp	Ile	Pro	Gly	Leu	Lys	Asp	Gly	His	Lys	Pro	Ala	Ile	Ser	His	
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Arg	Asp	Ile	Lys	Ser	Lys	Asn	Val	Leu	Leu	Lys	Asn	Asn	Leu	Thr	Ala	
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Cys	Ile	Ala	Asp	Phe	Gly	Leu	Ala	Leu	Lys	Phe	Glu	Ala	Gly	Lys	Ser	
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Ala	Gly	Asp	Thr	His	Gly	Gln	Val	Gly	Thr	Arg	Arg	Tyr	Met	Ala	Pro	
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Glu	Val	Leu	Glu	Gly	Ala	Ile	Asn	Phe	Gln	Arg	Asp	Ala	Phe	Leu	Arg	
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Ile	Asp	Met	Tyr	Ala	Met	Gly	Leu	Val	Leu	Trp	Glu	Leu	Ala	Ser	Arg	
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Cys Thr Ala Ala Asp Gly Pro Val Asp Glu Tyr Met Leu Pro Phe Glu
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Glu Glu Ile Gly Gln His Pro Ser Leu Glu Asp Met Gln Glu Val Val
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Val His Lys Lys Lys Arg Pro Val Leu Arg Asp Tyr Trp Gln Lys His
435 440 445

Ala Gly Met Ala Met Leu Cys Glu Thr Ile Glu Glu Cys Trp Asp His
450 455 460

Asp Ala Glu Ala Arg Leu Ser Ala Gly Cys Val Gly Glu Arg Ile Thr
465 470 475 480

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<210> 2

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<212> PRT

<213> Homo sapiens

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Trp Glu Lys Asp Arg Thr Asn Gln Thr Gly Val Glu Pro Cys Tyr Gly
20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Lys Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Thr Asp Cys Val Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Lys Phe Ser Tyr

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Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
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Lys Pro Pro
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 20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Lys Asn Ile Ser
 35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
 50 55 60

Cys Tyr Asp Arg Thr Asp Cys Val Glu Lys Lys Asp Ser Pro Glu Val
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Phe Pro Glu Met
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20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Thr Asp Cys Val Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Lys Phe Ser Thr
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Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
100 105 110

Lys Pro Pro
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Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
35 40 45

Gly Ser Ile Asp Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Thr Asp Cys Ile Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Arg Phe Ser Thr
85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
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Lys Xaa Pro
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20 25 30

Asp Lys Asp Lys His Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Thr Asp Cys Ile Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Lys Phe Ser Thr
85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
100 105 110

Xaa Ala Pro
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Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Xaa Thr Asp Cys Ile Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Lys Phe Ser Thr
85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
100 105 110

Lys Pro Pro
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Trp Glu Lys Asp Lys Thr Asn Arg Ser Gly Ile Glu Pro Cys Tyr Gly
20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Asn Asp Cys Ile Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Phe Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Arg Phe Phe Thr
85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
100 105 110

Xaa Pro Pro
115

<210> 11
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20 25 30

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
35 40 45

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
50 55 60

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val

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Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
			100					105					110		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
		115					120					125			
Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr
	130					135					140				
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
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Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
				165					170					175	
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys
			180					185					190		
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
		195					200					205			
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Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr
			20					25					30		
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu
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Val 50	Gln	Phe	Asn	Trp	Tyr	Val 55	Asp	Gly	Val	Glu	Val 60	His	Asn	Ala	Lys
Thr 65	Lys	Pro	Arg	Glu	Glu 70	Gln	Phe	Asn	Ser	Thr 75	Phe	Arg	Val	Val	Ser 80
Val	Leu	Thr	Val	Val 85	His	Gln	Asp	Trp	Leu 90	Asn	Gly	Lys	Glu	Tyr 95	Lys
Cys	Lys	Val	Ser 100	Asn	Lys	Gly	Leu	Pro 105	Ala	Pro	Ile	Glu	Lys	Thr	Ile
Ser	Lys	Thr 115	Lys	Gly	Gln	Pro	Arg 120	Glu	Pro	Gln	Val	Tyr 125	Thr	Leu	Pro
Pro	Ser 130	Arg	Glu	Glu	Met	Thr 135	Lys	Asn	Gln	Val	Ser 140	Leu	Thr	Cys	Leu
Val 145	Lys	Gly	Phe	Tyr	Pro 150	Ser	Asp	Ile	Ala	Val 155	Glu	Trp	Glu	Ser	Asn 160
Gly	Gln	Pro	Glu	Asn 165	Asn	Tyr	Lys	Thr	Thr 170	Pro	Pro	Met	Leu	Asp 175	Ser
Asp	Gly	Ser	Phe 180	Phe	Leu	Tyr	Ser	Lys 185	Leu	Thr	Val	Asp	Lys 190	Ser	Arg
Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser 200	Cys	Ser	Val	Met	His 205	Glu	Ala	Leu
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Lys	Asp	Thr 35	Leu	Met	Ile	Ser	Arg 40	Thr	Pro	Glu	Val	Thr 45	Cys	Val	Val

Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr Val
50 55 60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
65 70 75 80

Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Leu His Gln
85 90 95

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
100 105 110

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro
115 120 125

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

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
145 150 155 160

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

Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
180 185 190

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe
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Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln Lys
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Ser Leu Ser Leu Ser Pro Gly Lys
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<213> Homo sapiens

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Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu
35 40 45

Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala Pro
50 55 60

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
65 70 75 80

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
85 90 95

Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr Val Asp
100 105 110

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
115 120 125

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

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
145 150 155 160

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg
165 170 175

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
180 185 190

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
195 200 205

Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn Asn Tyr Asn
210 215 220

Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
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Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe Ser
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Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser
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Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro Glu Phe
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Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
35 40 45

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
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Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
65 70 75 80

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
85 90 95

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
100 105 110

Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
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Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
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Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
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Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
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Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
180 185 190

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
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Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
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Leu Ser Leu Gly Lys
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<210> 16
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sintético

<400> 17
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sintético

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sintético

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<400> 22
Gly Gly Gly Gly Ser
1 5

<210> 23
<211> 344
<212> PRT
<213> Secuencia artificial

<220>
<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 23
Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Phe Phe Asn Ala Asn
1 5 10 15

Trp Glu Lys Asp Arg Thr Asn Gln Thr Gly Val Glu Pro Cys Tyr Gly
 20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Lys Asn Ile Ser
 35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
 50 55 60

Cys Tyr Asp Arg Thr Asp Cys Val Glu Lys Lys Asp Ser Pro Glu Val
 65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Lys Phe Ser Tyr
 85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
 100 105 110

Lys Pro Pro Thr Gly Gly Gly Thr His Thr Cys Pro Pro Cys Pro Ala
 115 120 125

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 130 135 140

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 145 150 155 160

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 165 170 175

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 180 185 190

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 195 200 205

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 210 215 220

Leu Pro Val Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 225 230 235 240

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 245 250 255

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

260

265

270

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 275 280 285

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 290 295 300

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 305 310 315 320

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 325 330 335

Ser Leu Ser Leu Ser Pro Gly Lys
 340

<210> 24
 <211> 21
 <212> PRT
 <213> Apis sp.

<400> 24
 Met Lys Phe Leu Val Asn Val Ala Leu Val Phe Met Val Val Tyr Ile
 1 5 10 15

Ser Tyr Ile Tyr Ala
 20

<210> 25
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 25
 Met Asp Ala Met Lys Arg Gly Leu Cys Cys Val Leu Leu Leu Cys Gly
 1 5 10 15

Ala Val Phe Val Ser Pro
 20

<210> 26
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 26
 Met Gly Ala Ala Ala Lys Leu Ala Phe Ala Val Phe Leu Ile Ser Cys
 1 5 10 15

Ser Ser Gly Ala
20

<210> 27
<211> 369
<212> PRT
<213> Secuencia artificial

<220>
<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 27
Met Asp Ala Met Lys Arg Gly Leu Cys Cys Val Leu Leu Leu Cys Gly
1 5 10 15

Ala Val Phe Val Ser Pro Gly Ala Ala Ile Leu Gly Arg Ser Glu Thr
20 25 30

Gln Glu Cys Leu Phe Phe Asn Ala Asn Trp Glu Lys Asp Arg Thr Asn
35 40 45

Gln Thr Gly Val Glu Pro Cys Tyr Gly Asp Lys Asp Lys Arg Arg His
50 55 60

Cys Phe Ala Thr Trp Lys Asn Ile Ser Gly Ser Ile Glu Ile Val Lys
65 70 75 80

Gln Gly Cys Trp Leu Asp Asp Ile Asn Cys Tyr Asp Arg Thr Asp Cys
85 90 95

Val Glu Lys Lys Asp Ser Pro Glu Val Tyr Phe Cys Cys Cys Glu Gly
100 105 110

Asn Met Cys Asn Glu Lys Phe Ser Tyr Phe Pro Glu Met Glu Val Thr
115 120 125

Gln Pro Thr Ser Asn Pro Val Thr Pro Lys Pro Pro Thr Gly Gly Gly
130 135 140

Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
145 150 155 160

Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
165 170 175

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
180 185 190

Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
195 200 205

Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
210 215 220

Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
225 230 235 240

Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Val Pro Ile Glu Lys
245 250 255

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
260 265 270

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
275 280 285

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
290 295 300

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

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

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
340 345 350

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
355 360 365

Lys

<210> 28

<211> 1114

<212> DNA

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polinucleótido
sintético

<400> 28

atggatgcaa tgaagagagg gctctgctgt gtgctgctgc tgtgtggagc agtcttcggt
60

tcgcccggcg ccgctatact tggtagatca gaaactcagg agtgtctttt tttaatgcta
120

attgggaaaa agacagaacc aatcaaactg gtgttgaacc gtgttatggt gacaaagata
180

aacggcggca ttgttttgct acctggaaga atatttctgg ttccattgaa tagtgaaaca
240

aggttgttgg ctggatgata tcaactgcta tgacaggact gattgtgtag aaaaaaaga
300

cagccctgaa gtatatattct gttgctgtga gggcaatatg tgtaatgaaa agttttctta
360

ttttccggag atggaagtca cacagccac ttcaaatacca gttacaccta agccaccac
420

cggtggtgga actcacacat gccaccgtg ccagcacct gaactcctgg ggggaccgtc
480

agtcttcttc tccccccaa aaccaagga caccctcatg atctcccgga cccctgaggt
540

cacatgcgtg gtggtggacg tgagccacga agaccctgag gtcaagttca actggtacgt
600

ggacggcgtg gaggtgcata atgccaagac aaagccgcgg gaggagcagt acaacagcac
660

gtaccgtgtg gtcagcgtcc tcaccgtcct gcaccaggac tggctgaatg gcaaggagta
720

caagtgcaag gtctccaaca aagccctccc agtccccatc gagaaaacca tctccaaagc
780

caaagggcag ccccgagaac cacaggtgta caccctgccc ccatcccggg aggagatgac
840

caagaaccag gtcagcctga cctgcctggt caaaggcttc tatcccagcg acatcgccgt
900

ggagtgggag agcaatgggc agccggagaa caactacaag accacgcctc ccgtgctgga
960

ctccgacggc tccttcttcc tctatagcaa gtcaccgtg gacaagagca ggtggcagca
1020

ggggaacgtc ttctcatgct ccgtgatgca tgaggctctg cacaaccact acacgcagaa
1080

gagcctctcc ctgtctccgg gtaaatgaga attc
1114

<210> 29

<211> 9

<212> PRT

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Péptido
sintético

<400> 29

Ile Leu Gly Arg Ser Glu Thr Gln Glu
1 5

<210> 30

<211> 329

<212> PRT

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 30

Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Phe Phe Asn Ala Asn
1 5 10 15

Trp Glu Lys Asp Arg Thr Asn Gln Thr Gly Val Glu Pro Cys Tyr Gly
20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Lys Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Thr Asp Cys Val Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Lys Phe Ser Tyr
85 90 95

Phe Pro Glu Met Thr Gly Gly Gly Thr His Thr Cys Pro Pro Cys Pro
100 105 110

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
115 120 125

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
130 135 140

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
145 150 155 160

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
165 170 175

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
180 185 190

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
195 200 205

Ala Leu Pro Val Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
210 215 220

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
225 230 235 240

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
245 250 255

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
260 265 270

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
275 280 285

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
290 295 300

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
305 310 315 320

Lys Ser Leu Ser Leu Ser Pro Gly Lys
325

<210> 31

<211> 115

<212> PRT

<213> Homo sapiens

<400> 31

Gly Arg Gly Glu Ala Glu Thr Arg Glu Cys Ile Tyr Tyr Asn Ala Asn
1 5 10 15

Trp Glu Leu Glu Arg Thr Asn Gln Ser Gly Leu Glu Arg Cys Glu Gly
20 25 30

Glu Gln Asp Lys Arg Leu His Cys Tyr Ala Ser Trp Arg Asn Ser Ser
35 40 45

Gly Thr Ile Glu Leu Val Lys Lys Gly Cys Trp Leu Asp Asp Phe Asn

50		55		60
Cys Tyr Asp Arg Gln Glu Cys Val Ala Thr Glu Glu Asn Pro Gln Val				
65		70		75
				80
Tyr Phe Cys Cys Cys Glu Gly Asn Phe Cys Asn Glu Arg Phe Thr His				
		85		90
				95
Leu Pro Glu Ala Gly Gly Pro Glu Val Thr Tyr Glu Pro Pro Pro Thr				
		100		105
				110
Ala Pro Thr				
		115		
<210> 32				
<211> 225				
<212> PRT				
<213> Secuencia artificial				
<220>				
<223> Descripción de la secuencia artificial: Polipéptido sintético				
<400> 32				
Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro				
1		5		10
				15
Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser				
		20		25
				30
Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp				
		35		40
				45
Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn				
		50		55
				60
Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val				
65		70		75
				80
Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu				
		85		90
				95
Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys				
		100		105
				110
Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr				
		115		120
				125

Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
 130 135 140

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 145 150 155 160

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 165 170 175

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 180 185 190

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 195 200 205

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 210 215 220

Lys
 225

<210> 33
 <211> 223
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Descripción de la secuencia artificial: Polipéptido
 sintético

<400> 33
 Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val
 1 5 10 15

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 20 25 30

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 35 40 45

Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 50 55 60

Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser
 65 70 75 80

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 85 90 95

Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile
100 105 110

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

Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
130 135 140

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
145 150 155 160

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser
165 170 175

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
180 185 190

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
195 200 205

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215 220

<210> 34
<211> 232
<212> PRT
<213> Secuencia artificial

<220>
<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 34
Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Ala
1 5 10 15

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
20 25 30

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
35 40 45

Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr Val
50 55 60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
65 70 75 80

Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Leu His Gln
85 90 95

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
100 105 110

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro
115 120 125

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

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
145 150 155 160

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

Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
180 185 190

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe
195 200 205

Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln Lys
210 215 220

Ser Leu Ser Leu Ser Pro Gly Lys
225 230

<210> 35
<211> 229
<212> PRT
<213> Secuencia artificial

<220>
<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 35
Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro Glu Phe
1 5 10 15

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
20 25 30

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val

35	40	45
Ser 50	Gln 55	Val 60
Glu 65	Val 70	Asn 80
Thr 85	Val 90	Leu 95
Asn 100	Val 105	Leu 110
Ser 115	Val 120	Pro 125
Gln 130	Val 135	Met 140
Val 145	Val 150	Tyr 155
Val 165	Val 170	Thr 175
Pro 180	Val 185	Tyr 190
Thr 195	Val 200	Val 205
Val 210	Val 215	Gln 220
Leu 225		

<210> 36
 <211> 115
 <212> PRT
 <213> Bos taurus

<220>
 <221> MOD_RES
 <222> (45)..(45)
 <223> Qualquer aminoácido

<220>
<221> MOD_RES
<222> (113)..(113)
<223> Cualquier aminoácido

<400> 36
Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Phe Tyr Asn Ala Asn
1 5 10 15

Trp Glu Arg Asp Arg Thr Asn Arg Thr Gly Val Glu Ser Cys Tyr Gly
20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Thr Asp Cys Ile Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Arg Phe Ser Thr
85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
100 105 110

Xaa Pro Pro
115

<210> 37
<211> 115
<212> PRT
<213> Tyto alba

<220>
<221> MOD_RES
<222> (45)..(45)
<223> Cualquier aminoácido

<220>
<221> MOD_RES
<222> (113)..(113)
<223> Cualquier aminoácido

<400> 37
Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Tyr Tyr Asn Ala Asn
1 5 10 15

Trp Glu Lys Asp Lys Thr Asn Arg Ser Gly Ile Glu Pro Cys Tyr Gly

20

25

30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
 35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
 50 55 60

Cys Tyr Asp Arg Asn Asp Cys Ile Glu Lys Lys Asp Ser Pro Glu Val
 65 70 75 80

Phe Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Arg Phe Phe Thr
 85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
 100 105 110

Xaa Pro Pro
 115

<210> 38
 <211> 115
 <212> PRT
 <213> Myotis davidii

<220>
 <221> MOD_RES
 <222> (45)..(45)
 <223> Cualquier aminoácido

<400> 38
 Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Phe Tyr Asn Ala Asn
 1 5 10 15

Trp Glu Arg Asp Lys Thr Asn Arg Thr Gly Ile Glu Pro Cys Tyr Gly
 20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Xaa Asn Ile Ser
 35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
 50 55 60

Cys Tyr Asp Lys Thr Asp Cys Ile Glu Lys Lys Asp Ser Pro Glu Val
 65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Arg Phe Ser Thr
 85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
100 105 110

Lys Pro Pro
115

<210> 39

<400> 39
000

<210> 40

<400> 40
000

<210> 41
<211> 343
<212> PRT
<213> Secuencia artificial

<220>
<223> Descripción de la secuencia artificial: Polipéptido
sintético

<400> 41
Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Phe Phe Asn Ala Asn
1 5 10 15

Trp Glu Lys Asp Arg Thr Asn Gln Thr Gly Val Glu Pro Cys Tyr Gly
20 25 30

Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp Lys Asn Ile Ser
35 40 45

Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu Asp Asp Ile Asn
50 55 60

Cys Tyr Asp Arg Thr Asp Cys Val Glu Lys Lys Asp Ser Pro Glu Val
65 70 75 80

Tyr Phe Cys Cys Cys Glu Gly Asn Met Cys Asn Glu Lys Phe Ser Tyr
85 90 95

Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn Pro Val Thr Pro
100 105 110

Lys Pro Pro Thr Gly Gly Gly Thr His Thr Cys Pro Pro Cys Pro Ala

115					120					125					
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro
	130					135					140				
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val
145					150					155					160
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val
				165					170					175	
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln
			180					185					190		
Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln
		195					200					205			
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala
	210					215					220				
Leu	Pro	Val	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
225					230					235					240
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr
				245					250					255	
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
			260					265					270		
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
		275					280					285			
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
	290					295					300				
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe
305					310					315					320
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
				325					330					335	
Ser	Leu	Ser	Leu	Ser	Pro	Gly									
			340												

<210> 42

<211> 6

<212> PRT

<213> Secuencia artificial

<220>

<223> Descripción de la secuencia artificial:
6xhis tag sintético

<400> 42

His His His His His His

1 5