

LISTADO DE SECUENCIAS

<110> Solicitante: AM-PHARMA B.V.

<120> Título de la invención: Proteínas Quiméricas Tipo Fosfatasa Alcalina

<130> Número de referencia: P102874MX00

<150> Número de solicitud previa: EP 14152526.1

<151> Fecha de presentación de la solicitud previa: 2014-01-24

<150> Número de solicitud previa: PCT/NL2015/050048

<151> Fecha de presentación de la solicitud previa: 2015-01-26

<150> Número de solicitud previa: EP 14188158.1

<151> Fecha de presentación de la solicitud previa: 2014-10-08

<160> Números de secuencias: 7

<170> Software: PatentIn versión 3.5

<210> SEQ ID NO: 1

<211> Longitud: 484

<212> Tipo: PRT

<213> Organismo: Secuencia Artificial

<220> Característica:

<223> Otra Información: Secuencia RecAP Mejorada (LVL-RecAP)

<400> Secuencia: 1

Val Ile Pro Ala Glu Glu Glu Asn Pro Ala Phe Trp Asn Arg Gln Ala
1 5 10 15

Ala Glu Ala Leu Asp Ala Ala Lys Lys Leu Gln Pro Ile Gln Lys Val
20 25 30

Ala Lys Asn Leu Ile Leu Phe Leu Gly Asp Gly Leu Gly Val Pro Thr
35 40 45

Val Thr Ala Thr Arg Ile Leu Lys Gly Gln Lys Asn Gly Lys Leu Gly
50 55 60

Pro Glu Thr Pro Leu Ala Met Asp Arg Phe Pro Tyr Leu Ala Leu Ser
65 70 75 80

Lys Thr Tyr Asn Val Asp Arg Gln Val Pro Asp Ser Ala Ala Thr Ala
85 90 95

Thr Ala Tyr Leu Cys Gly Val Lys Ala Asn Phe Gln Thr Ile Gly Leu
100 105 110

Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn Thr Thr Arg Gly Asn Glu
115 120 125

Val Ile Ser Val Met Asn Arg Ala Lys Gln Ala Gly Lys Ser Val Gly
130 135 140

Val Val Thr Thr Thr Arg Val Gln His Ala Ser Pro Ala Gly Thr Tyr
145 150 155 160

Ala His Thr Val Asn Arg Asn Trp Tyr Ser Asp Ala Asp Met Pro Ala
165 170 175

Ser Ala Arg Gln Glu Gly Cys Gln Asp Ile Ala Thr Gln Leu Ile Ser
180 185 190

Asn Met Asp Ile Asp Val Ile Leu Gly Gly Gly Arg Lys Tyr Met Phe
195 200 205

Pro Met Gly Thr Pro Asp Pro Glu Tyr Pro Ala Asp Ala Ser Gln Asn
210 215 220

Gly Ile Arg Leu Asp Gly Lys Asn Leu Val Gln Glu Trp Leu Ala Lys
225 230 235 240

His Gln Gly Ala Trp Tyr Val Trp Asn Arg Thr Glu Leu Met Gln Ala
245 250 255

Ser Leu Asp Gln Ser Val Thr His Leu Met Gly Leu Phe Glu Pro Gly
260 265 270

Asp Thr Lys Tyr Glu Ile Leu Arg Asp Pro Thr Leu Asp Pro Ser Leu
275 280 285

Met Glu Met Thr Glu Ala Ala Leu Arg Leu Leu Ser Arg Asn Pro Arg
290 295 300

Gly Phe Tyr Leu Phe Val Glu Gly Gly Arg Ile Asp His Gly His His
305 310 315 320

Glu Gly Val Ala Tyr Gln Ala Val Thr Glu Ala Val Met Phe Asp Asp
325 330 335

Ala Ile Glu Arg Ala Gly Gln Leu Thr Ser Glu Glu Asp Thr Leu Thr
340 345 350

Leu Val Thr Ala Asp His Ser His Val Phe Ser Phe Gly Gly Tyr Pro
355 360 365

Leu Arg Gly Ser Ser Ile Phe Gly Leu Ala Pro Gly Lys Ala Arg Asp
370 375 380

Arg Lys Ala Tyr Thr Val Leu Leu Tyr Gly Asn Gly Pro Gly Tyr Val
385 390 395 400

Leu Lys Asp Gly Ala Arg Pro Asp Val Thr Glu Ser Glu Ser Gly Ser
405 410 415

Pro Glu Tyr Arg Gln Gln Ser Ala Val Pro Leu Asp Glu Glu Thr His
420 425 430

Gly Gly Glu Asp Val Ala Val Phe Ala Arg Gly Pro Gln Ala His Leu
435 440 445

Val His Gly Val Gln Glu Gln Ser Phe Val Ala His Val Met Ala Phe
450 455 460

Ala Ala Cys Leu Glu Pro Tyr Thr Ala Cys Asp Leu Ala Leu Pro Ala
465 470 475 480

Cys Thr Thr Asp

<210> SEQ ID NO: 2
<211> Longitud: 484
<212> Tipo: PRT
<213> Organismo: Homo sapiens

<400> Secuencia: 2

Val Ile Pro Ala Glu Glu Glu Asn Pro Ala Phe Trp Asn Arg Gln Ala
1 5 10 15

Ala Glu Ala Leu Asp Ala Ala Lys Lys Leu Gln Pro Ile Gln Lys Val
20 25 30

Ala Lys Asn Leu Ile Leu Phe Leu Gly Asp Gly Leu Gly Val Pro Thr
35 40 45

Val Thr Ala Thr Arg Ile Leu Lys Gly Gln Lys Asn Gly Lys Leu Gly
50 55 60

Pro Glu Thr Pro Leu Ala Met Asp Arg Phe Pro Tyr Leu Ala Leu Ser
65 70 75 80

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

85								90					95				
Thr	Ala	Tyr	Leu	Cys	Gly	Val	Lys	Ala	Asn	Phe	Gln	Thr	Ile	Gly	Leu		
			100					105					110				
Ser	Ala	Ala	Ala	Arg	Phe	Asn	Gln	Cys	Asn	Thr	Thr	Arg	Gly	Asn	Glu		
			115				120					125					
Val	Ile	Ser	Val	Met	Asn	Arg	Ala	Lys	Gln	Ala	Gly	Lys	Ser	Val	Gly		
			130				135				140						
Val	Val	Thr	Thr	Thr	Arg	Val	Gln	His	Ala	Ser	Pro	Ala	Gly	Thr	Tyr		
145					150					155					160		
Ala	His	Thr	Val	Asn	Arg	Asn	Trp	Tyr	Ser	Asp	Ala	Asp	Met	Pro	Ala		
				165					170					175			
Ser	Ala	Arg	Gln	Glu	Gly	Cys	Gln	Asp	Ile	Ala	Thr	Gln	Leu	Ile	Ser		
			180					185					190				
Asn	Met	Asp	Ile	Asp	Val	Ile	Leu	Gly	Gly	Gly	Arg	Lys	Tyr	Met	Phe		
			195				200					205					
Pro	Met	Gly	Thr	Pro	Asp	Pro	Glu	Tyr	Pro	Ala	Asp	Ala	Ser	Gln	Asn		
			210				215					220					
Gly	Ile	Arg	Leu	Asp	Gly	Lys	Asn	Leu	Val	Gln	Glu	Trp	Leu	Ala	Lys		
225					230					235					240		
His	Gln	Gly	Ala	Trp	Tyr	Val	Trp	Asn	Arg	Thr	Glu	Leu	Met	Gln	Ala		
				245					250					255			
Ser	Leu	Asp	Gln	Ser	Val	Thr	His	Leu	Met	Gly	Leu	Phe	Glu	Pro	Gly		
			260					265					270				
Asp	Thr	Lys	Tyr	Glu	Ile	His	Arg	Asp	Pro	Thr	Leu	Asp	Pro	Ser	Leu		
			275				280					285					
Met	Glu	Met	Thr	Glu	Ala	Ala	Leu	Arg	Leu	Leu	Ser	Arg	Asn	Pro	Arg		
			290				295					300					
Gly	Phe	Tyr	Leu	Phe	Val	Glu	Gly	Gly	Arg	Ile	Asp	His	Gly	His	His		
305					310					315					320		
Glu	Gly	Val	Ala	Tyr	Gln	Ala	Leu	Thr	Glu	Ala	Val	Met	Phe	Asp	Asp		
				325					330					335			

Ala Ile Glu Arg Ala Gly Gln Leu Thr Ser Glu Glu Asp Thr Leu Thr
340 345 350

Leu Val Thr Ala Asp His Ser His Val Phe Ser Phe Gly Gly Tyr Thr
355 360 365

Leu Arg Gly Ser Ser Ile Phe Gly Leu Ala Pro Ser Lys Ala Gln Asp
370 375 380

Ser Lys Ala Tyr Thr Ser Ile Leu Tyr Gly Asn Gly Pro Gly Tyr Val
385 390 395 400

Phe Asn Ser Gly Val Arg Pro Asp Val Asn Glu Ser Glu Ser Gly Ser
405 410 415

Pro Asp Tyr Gln Gln Gln Ala Ala Val Pro Leu Ser Ser Glu Thr His
420 425 430

Gly Gly Glu Asp Val Ala Val Phe Ala Arg Gly Pro Gln Ala His Leu
435 440 445

Val His Gly Val Gln Glu Gln Ser Phe Val Ala His Val Met Ala Phe
450 455 460

Ala Ala Cys Leu Glu Pro Tyr Thr Ala Cys Asp Leu Ala Pro Pro Ala
465 470 475 480

Cys Thr Thr Asp

<210> SEQ ID NO: 3
<211> Longitud: 484
<212> Tipo: PRT
<213> Organismo: Homo sapiens

<400> Secuencia: 3

Ile Ile Pro Val Glu Glu Glu Asn Pro Asp Phe Trp Asn Arg Glu Ala
1 5 10 15

Ala Glu Ala Leu Gly Ala Ala Lys Lys Leu Gln Pro Ala Gln Thr Ala
20 25 30

Ala Lys Asn Leu Ile Ile Phe Leu Gly Asp Gly Met Gly Val Ser Thr
35 40 45

Val Thr Ala Ala Arg Ile Leu Lys Gly Gln Lys Lys Asp Lys Leu Gly
50 55 60

Pro Glu Ile Pro Leu Ala Met Asp Arg Phe Pro Tyr Val Ala Leu Ser
65 70 75 80

Lys Thr Tyr Asn Val Asp Lys His Val Pro Asp Ser Gly Ala Thr Ala
85 90 95

Thr Ala Tyr Leu Cys Gly Val Lys Gly Asn Phe Gln Thr Ile Gly Leu
100 105 110

Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn Thr Thr Arg Gly Asn Glu
115 120 125

Val Ile Ser Val Met Asn Arg Ala Lys Lys Ala Gly Lys Ser Val Gly
130 135 140

Val Val Thr Thr Thr Arg Val Gln His Ala Ser Pro Ala Gly Thr Tyr
145 150 155 160

Ala His Thr Val Asn Arg Asn Trp Tyr Ser Asp Ala Asp Val Pro Ala
165 170 175

Ser Ala Arg Gln Glu Gly Cys Gln Asp Ile Ala Thr Gln Leu Ile Ser
180 185 190

Asn Met Asp Ile Asp Val Ile Leu Gly Gly Gly Arg Lys Tyr Met Phe
195 200 205

Arg Met Gly Thr Pro Asp Pro Glu Tyr Pro Asp Asp Tyr Ser Gln Gly
210 215 220

Gly Thr Arg Leu Asp Gly Lys Asn Leu Val Gln Glu Trp Leu Ala Lys
225 230 235 240

Arg Gln Gly Ala Arg Tyr Val Trp Asn Arg Thr Glu Leu Met Gln Ala
245 250 255

Ser Leu Asp Pro Ser Val Thr His Leu Met Gly Leu Phe Glu Pro Gly
260 265 270

Asp Met Lys Tyr Glu Ile His Arg Asp Ser Thr Leu Asp Pro Ser Leu
275 280 285

Met Glu Met Thr Glu Ala Ala Leu Arg Leu Leu Ser Arg Asn Pro Arg

290	295	300
Gly Phe Phe Leu Phe Val Glu Gly Gly Arg Ile Asp His Gly His His 305 310 315 320		
Glu Ser Arg Ala Tyr Arg Ala Leu Thr Glu Thr Ile Met Phe Asp Asp 325 330 335		
Ala Ile Glu Arg Ala Gly Gln Leu Thr Ser Glu Glu Asp Thr Leu Ser 340 345 350		
Leu Val Thr Ala Asp His Ser His Val Phe Ser Phe Gly Gly Tyr Pro 355 360 365		
Leu Arg Gly Ser Ser Ile Phe Gly Leu Ala Pro Gly Lys Ala Arg Asp 370 375 380		
Arg Lys Ala Tyr Thr Val Leu Leu Tyr Gly Asn Gly Pro Gly Tyr Val 385 390 395 400		
Leu Lys Asp Gly Ala Arg Pro Asp Val Thr Glu Ser Glu Ser Gly Ser 405 410 415		
Pro Glu Tyr Arg Gln Gln Ser Ala Val Pro Leu Asp Glu Glu Thr His 420 425 430		
Ala Gly Glu Asp Val Ala Val Phe Ala Arg Gly Pro Gln Ala His Leu 435 440 445		
Val His Gly Val Gln Glu Gln Thr Phe Ile Ala His Val Met Ala Phe 450 455 460		
Ala Ala Cys Leu Glu Pro Tyr Thr Ala Cys Asp Leu Ala Pro Pro Ala 465 470 475 480		
Gly Thr Thr Asp		

<210> SEQ ID NO: 4
 <211> Longitud: 484
 <212> Tipo: PRT
 <213> Organismo: Secuencia Artificial

 <220> Característica:
 <223> Otra Información: Secuencia sALPI-ALPP-CD

 <400> Secuencia: 4

Val Ile Pro Ala Glu Glu Glu Asn Pro Ala Phe Trp Asn Arg Gln Ala
1 5 10 15

Ala Glu Ala Leu Asp Ala Ala Lys Lys Leu Gln Pro Ile Gln Lys Val
20 25 30

Ala Lys Asn Leu Ile Leu Phe Leu Gly Asp Gly Leu Gly Val Pro Thr
35 40 45

Val Thr Ala Thr Arg Ile Leu Lys Gly Gln Lys Asn Gly Lys Leu Gly
50 55 60

Pro Glu Thr Pro Leu Ala Met Asp Arg Phe Pro Tyr Leu Ala Leu Ser
65 70 75 80

Lys Thr Tyr Asn Val Asp Arg Gln Val Pro Asp Ser Ala Ala Thr Ala
85 90 95

Thr Ala Tyr Leu Cys Gly Val Lys Ala Asn Phe Gln Thr Ile Gly Leu
100 105 110

Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn Thr Thr Arg Gly Asn Glu
115 120 125

Val Ile Ser Val Met Asn Arg Ala Lys Gln Ala Gly Lys Ser Val Gly
130 135 140

Val Val Thr Thr Thr Arg Val Gln His Ala Ser Pro Ala Gly Thr Tyr
145 150 155 160

Ala His Thr Val Asn Arg Asn Trp Tyr Ser Asp Ala Asp Met Pro Ala
165 170 175

Ser Ala Arg Gln Glu Gly Cys Gln Asp Ile Ala Thr Gln Leu Ile Ser
180 185 190

Asn Met Asp Ile Asp Val Ile Leu Gly Gly Gly Arg Lys Tyr Met Phe
195 200 205

Pro Met Gly Thr Pro Asp Pro Glu Tyr Pro Ala Asp Ala Ser Gln Asn
210 215 220

Gly Ile Arg Leu Asp Gly Lys Asn Leu Val Gln Glu Trp Leu Ala Lys
225 230 235 240

His Gln Gly Ala Trp Tyr Val Trp Asn Arg Thr Glu Leu Met Gln Ala

<210> SEQ ID NO: 5
<211> Longitud: 365
<212> Tipo: PRT
<213> Organismo: Homo sapiens

<400> Secuencia: 5

Val Ile Pro Ala Glu Glu Glu Asn Pro Ala Phe Trp Asn Arg Gln Ala
1 5 10 15

Ala Glu Ala Leu Asp Ala Ala Lys Lys Leu Gln Pro Ile Gln Lys Val
20 25 30

Ala Lys Asn Leu Ile Leu Phe Leu Gly Asp Gly Leu Gly Val Pro Thr
35 40 45

Val Thr Ala Thr Arg Ile Leu Lys Gly Gln Lys Asn Gly Lys Leu Gly
50 55 60

Pro Glu Thr Pro Leu Ala Met Asp Arg Phe Pro Tyr Leu Ala Leu Ser
65 70 75 80

Lys Thr Tyr Asn Val Asp Arg Gln Val Pro Asp Ser Ala Ala Thr Ala
85 90 95

Thr Ala Tyr Leu Cys Gly Val Lys Ala Asn Phe Gln Thr Ile Gly Leu
100 105 110

Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn Thr Thr Arg Gly Asn Glu
115 120 125

Val Ile Ser Val Met Asn Arg Ala Lys Gln Ala Gly Lys Ser Val Gly
130 135 140

Val Val Thr Thr Thr Arg Val Gln His Ala Ser Pro Ala Gly Thr Tyr
145 150 155 160

Ala His Thr Val Asn Arg Asn Trp Tyr Ser Asp Ala Asp Met Pro Ala
165 170 175

Ser Ala Arg Gln Glu Gly Cys Gln Asp Ile Ala Thr Gln Leu Ile Ser
180 185 190

Asn Met Asp Ile Asp Val Ile Leu Gly Gly Gly Arg Lys Tyr Met Phe
195 200 205

Pro Met Gly Thr Pro Asp Pro Glu Tyr Pro Ala Asp Ala Ser Gln Asn
210 215 220

Gly Ile Arg Leu Asp Gly Lys Asn Leu Val Gln Glu Trp Leu Ala Lys
225 230 235 240

His Gln Gly Ala Trp Tyr Val Trp Asn Arg Thr Glu Leu Met Gln Ala
245 250 255

Ser Leu Asp Gln Ser Val Thr His Leu Met Gly Leu Phe Glu Pro Gly
260 265 270

Asp Thr Lys Tyr Glu Ile His Arg Asp Pro Thr Leu Asp Pro Ser Leu
275 280 285

Met Glu Met Thr Glu Ala Ala Leu Arg Leu Leu Ser Arg Asn Pro Arg
290 295 300

Gly Phe Tyr Leu Phe Val Glu Gly Gly Arg Ile Asp His Gly His His
305 310 315 320

Glu Gly Val Ala Tyr Gln Ala Leu Thr Glu Ala Val Met Phe Asp Asp
325 330 335

Ala Ile Glu Arg Ala Gly Gln Leu Thr Ser Glu Glu Asp Thr Leu Thr
340 345 350

Leu Val Thr Ala Asp His Ser His Val Phe Ser Phe Gly
355 360 365

<210> SEQ ID NO: 6

<211> Longitud: 65

<212> Tipo: PRT

<213> Organismo: Secuencia Artificial

<220> Característica:

<223> Otra Información: Secuencia de dominio de Corona (366 - 430) de PLAP

<400> Secuencia: 6

Gly Tyr Pro Leu Arg Gly Ser Ser Ile Phe Gly Leu Ala Pro Gly Lys
1 5 10 15

Ala Arg Asp Arg Lys Ala Tyr Thr Val Leu Leu Tyr Gly Asn Gly Pro
20 25 30

Gly Tyr Val Leu Lys Asp Gly Ala Arg Pro Asp Val Thr Glu Ser Glu
35 40 45

Ser Gly Ser Pro Glu Tyr Arg Gln Gln Ser Ala Val Pro Leu Asp Glu
50 55 60

Glu
65

<210> SEQ ID NO: 7
<211> Longitud: 54
<212> Tipo: PRT
<213> Organismo: Homo sapiens

<400> Secuencia: 7

Thr His Gly Gly Glu Asp Val Ala Val Phe Ala Arg Gly Pro Gln Ala
1 5 10 15

His Leu Val His Gly Val Gln Glu Gln Ser Phe Val Ala His Val Met
20 25 30

Ala Phe Ala Ala Cys Leu Glu Pro Tyr Thr Ala Cys Asp Leu Ala Pro
35 40 45

Pro Ala Cys Thr Thr Asp
50