

SEQUENCE LISTING

<110> JIANGSU HENGRUI PHARMACEUTICALS CO., LTD.
SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.

<120> ANTI-NECTIN-4 ANTIBODY AND ANTI-NECTIN-4 ANTIBODY-DRUG CONJUGATE, AND
MEDICINAL USER THEREOF

<130> 722044CPCT

<150> CN202110455570.X
<151> 2021-04-26

<160> 23

<170> SIPOSequenceListing 1.0

<210> 1
<211> 510
<212> PRT
<213> Homo sapiens

<220>
<221> PEPTIDE
<223> Amino acid sequence of human Nectin-4

<400> 1
Met Pro Leu Ser Leu Gly Ala Glu Met Trp Gly Pro Glu Ala Trp Leu
1 5 10 15
Leu Leu Leu Leu Leu Leu Ala Ser Phe Thr Gly Arg Cys Pro Ala Gly
20 25 30
Glu Leu Glu Thr Ser Asp Val Val Thr Val Val Leu Gly Gln Asp Ala
35 40 45
Lys Leu Pro Cys Phe Tyr Arg Gly Asp Ser Gly Glu Gln Val Gly Gln
50 55 60
Val Ala Trp Ala Arg Val Asp Ala Gly Glu Gly Ala Gln Glu Leu Ala
65 70 75 80
Leu Leu His Ser Lys Tyr Gly Leu His Val Ser Pro Ala Tyr Glu Gly
85 90 95
Arg Val Glu Gln Pro Pro Pro Pro Arg Asn Pro Leu Asp Gly Ser Val
100 105 110
Leu Leu Arg Asn Ala Val Gln Ala Asp Glu Gly Glu Tyr Glu Cys Arg
115 120 125
Val Ser Thr Phe Pro Ala Gly Ser Phe Gln Ala Arg Leu Arg Leu Arg
130 135 140
Val Leu Val Pro Pro Leu Pro Ser Leu Asn Pro Gly Pro Ala Leu Glu
145 150 155 160
Glu Gly Gln Gly Leu Thr Leu Ala Ala Ser Cys Thr Ala Glu Gly Ser
165 170 175

Pro	Ala	Pro	Ser	Val	Thr	Trp	Asp	Thr	Glu	Val	Lys	Gly	Thr	Thr	Ser			
			180					185					190					
Ser	Arg	Ser	Phe	Lys	His	Ser	Arg	Ser	Ala	Ala	Val	Thr	Ser	Glu	Phe			
		195					200					205						
His	Leu	Val	Pro	Ser	Arg	Ser	Met	Asn	Gly	Gln	Pro	Leu	Thr	Cys	Val			
	210					215					220							
Val	Ser	His	Pro	Gly	Leu	Gln	Asp	Gln	Arg	Ile	Thr	His	Ile	Leu				
225				230				235						240				
His	Val	Ser	Phe	Leu	Ala	Glu	Ala	Ser	Val	Arg	Gly	Leu	Glu	Asp	Gln			
			245					250						255				
Asn	Leu	Trp	His	Ile	Gly	Arg	Glu	Gly	Ala	Met	Leu	Lys	Cys	Leu	Ser			
		260						265					270					
Glu	Gly	Gln	Pro	Pro	Pro	Ser	Tyr	Asn	Trp	Thr	Arg	Leu	Asp	Gly	Pro			
		275					280					285						
Leu	Pro	Ser	Gly	Val	Arg	Val	Asp	Gly	Asp	Thr	Leu	Gly	Phe	Pro	Pro			
	290					295					300							
Leu	Thr	Thr	Glu	His	Ser	Gly	Ile	Tyr	Val	Cys	His	Val	Ser	Asn	Glu			
305				310						315					320			
Phe	Ser	Ser	Arg	Asp	Ser	Gln	Val	Thr	Val	Asp	Val	Leu	Asp	Pro	Gln			
			325						330					335				
Glu	Asp	Ser	Gly	Lys	Gln	Val	Asp	Leu	Val	Ser	Ala	Ser	Val	Val	Val			
		340						345					350					
Val	Gly	Val	Ile	Ala	Ala	Leu	Leu	Phe	Cys	Leu	Leu	Val	Val	Val	Val			
	355					360					365							
Val	Leu	Met	Ser	Arg	Tyr	His	Arg	Arg	Lys	Ala	Gln	Gln	Met	Thr	Gln			
	370					375					380							
Lys	Tyr	Glu	Glu	Glu	Leu	Thr	Leu	Thr	Arg	Glu	Asn	Ser	Ile	Arg	Arg			
385				390						395					400			
Leu	His	Ser	His	His	Thr	Asp	Pro	Arg	Ser	Gln	Pro	Glu	Glu	Ser	Val			
			405						410					415				
Gly	Leu	Arg	Ala	Glu	Gly	His	Pro	Asp	Ser	Leu	Lys	Asp	Asn	Ser	Ser			
		420						425					430					
Cys	Ser	Val	Met	Ser	Glu	Glu	Pro	Glu	Gly	Arg	Ser	Tyr	Ser	Thr	Leu			
		435					440					445						
Thr	Thr	Val	Arg	Glu	Ile	Glu	Thr	Gln	Thr	Glu	Leu	Leu	Ser	Pro	Gly			
	450					455					460							
Ser	Gly	Arg	Ala	Glu	Glu	Glu	Asp	Gln	Asp	Glu	Gly	Ile	Lys	Gln				
465				470					475					480				
Ala	Met	Asn	His	Phe	Val	Gln	Glu	Asn	Gly	Thr	Leu	Arg	Ala	Lys	Pro			
			485						490					495				
Thr	Gly	Asn	Gly	Ile	Tyr	Ile	Asn	Gly	Arg	Gly	His	Leu	Val					
		500						505					510					

<210> 2
 <211> 447
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> CHAIN

<223> Heavy chain of EV201

$\langle 400 \rangle$ 2

Glu 1	Val	Gln	Leu	Val 5	Glu	Ser	Gly	Gly 10	Gly	Leu	Val	Gln	Pro	Gly 15	Gly
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Ser	Tyr
Asn	Met	Asn	Trp 35	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ser	Tyr 50	Ile	Ser	Ser	Ser 55	Ser	Thr	Ile	Tyr	Tyr 60	Ala	Asp	Ser	Val	
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ala 75	Lys	Asn	Ser	Leu	Ser 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Asp	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr	Cys 95
Ala	Arg	Ala	Tyr 100	Tyr	Tyr	Gly	Met	Asp 105	Val	Trp	Gly	Gln	Gly 110	Thr	Thr
Val	Thr	Val 115	Ser	Ser	Ala	Ser	Thr 120	Lys	Gly	Pro	Ser	Val 125	Phe	Pro	Leu
Ala	Pro 130	Ser	Ser	Lys	Ser	Thr 135	Ser	Gly	Gly 140	Thr	Ala	Ala	Leu	Gly	Cys
Leu 145	Val	Lys	Asp	Tyr	Phe 150	Pro	Glu	Pro	Val	Thr 155	Val	Ser	Trp	Asn	Ser 160
Gly	Ala	Leu	Thr	Ser 165	Gly	Val	His	Thr	Phe 170	Pro	Ala	Val	Leu	Gln	Ser 175
Ser	Gly	Leu	Tyr 180	Ser	Leu	Ser	Ser	Val 185	Val	Thr	Val	Pro 190	Ser	Ser	Ser
Leu	Gly	Thr 195	Gln	Thr	Tyr	Ile	Cys 200	Asn	Val	Asn	His	Lys 205	Pro	Ser	Asn
Thr	Lys 210	Val	Asp	Lys	Arg	Val 215	Glu	Pro	Lys	Ser	Cys 220	Asp	Lys	Thr	His
Thr 225	Cys	Pro	Pro	Cys	Pro 230	Ala	Pro	Glu	Leu	Leu 235	Gly	Gly	Pro	Ser	Val 240
Phe	Leu	Phe	Pro	Pro 245	Lys	Pro	Lys	Asp	Thr 250	Leu	Met	Ile	Ser	Arg	Thr 255
Pro	Glu	Val	Thr 260	Cys	Val	Val	Val	Asp 265	Val	Ser	His	Glu	Asp	Pro	Glu 270
Val	Lys	Phe 275	Asn	Trp	Tyr	Val	Asp 280	Gly	Val	Glu	Val	His 285	Asn	Ala	Lys
Thr	Lys 290	Pro	Arg	Glu	Glu	Gln 295	Tyr	Asn	Ser	Thr	Tyr 300	Arg	Val	Val	Ser
Val 305	Leu	Thr	Val	Leu	His 310	Gln	Asp	Trp	Leu	Asn	Gly 315	Lys	Glu	Tyr	Lys 320
Cys	Lys	Val	Ser	Asn 325	Lys	Ala	Leu	Pro	Ala 330	Pro	Ile	Glu	Lys	Thr	Ile 335
Ser	Lys	Ala	Lys 340	Gly	Gln	Pro	Arg	Glu	Pro 345	Gln	Val	Tyr	Thr	Leu	Pro 350
Pro	Ser	Arg 355	Glu	Glu	Met	Thr	Lys 360	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu 365

Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn
370						375					380				
Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser
385					390					395					400
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg
			405						410					415	
Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu
			420					425					430		
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys	
		435					440					445			

<210> 3
 <211> 214
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> CHAIN
 <223> Light chain of EV201

<400> 3

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val	Gly
1			5					10						15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Ser	Gly	Trp
		20					25					30			
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Phe	Leu	Ile
		35				40						45			
Tyr	Ala	Ala	Ser	Thr	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55				60					
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65				70						75				80	
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ala	Asn	Ser	Phe	Pro	Pro
			85					90						95	
Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala	Ala
		100						105					110		
Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly
		115				120						125			
Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala
	130				135					140					
Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln
145				150						155					160
Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser
			165					170						175	
Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr
		180					185						190		
Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser
		195					200					205			
Phe	Asn	Arg	Gly	Glu	Cys										
		210													

<210> 4
 <211> 330
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> DOMAIN
 <223> Heavy chain constant region of human IgG1

<400> 4
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15
 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20 25 30
 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50 55 60
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80
 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95
 Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 115 120 125
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 130 135 140
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 145 150 155 160
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 165 170 175
 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 180 185 190
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 195 200 205
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 210 215 220
 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
 225 230 235 240
 Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 245 250 255
 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 260 265 270
 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 275 280 285
 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 290 295 300

Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
305					310					315					320
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys						
				325					330						

<210> 5
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> DOMAIN
 <223> Human kappa light chain constant region

<400> 5															
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
1				5				10						15	
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
			20					25					30		
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
		35					40					45			
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
	50					55					60				
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
65					70					75					80
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
				85					90					95	
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
			100					105							

<210> 6
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> DOMAIN
 <223> Heavy chain variable region of NEC49

<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	Ser	Ser	Tyr
			20					25					30		
Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Ala	Ile	Tyr	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
	50					55					60				

Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Thr
				85					90					95	
Arg	His	Gly	Gly	Asp	Ser	Gly	Ser	Trp	Ser	Tyr	Tyr	Tyr	Tyr	Gly	Met
			100					105					110		
Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 7
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> DOMAIN
 <223> Light chain variable region of NEC49

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35				40						45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75					80
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro	Leu
				85					90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys					
			100					105							

<210> 8
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> DOMAIN
 <223> Chothia HCDR1

Gly	Phe	Thr	Phe	Ser	Ser	Tyr
1				5		

<210> 9

<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN
<223> Chothia HCDR2

<400> 9
Tyr Ser Gly Gly Ser
1 5

<210> 10
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN
<223> Chothia Kabat HCDR3

<400> 10
His Gly Gly Asp Ser Gly Ser Trp Ser Tyr Tyr Tyr Tyr Gly Met Asp
1 5 10 15
Val

<210> 11
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN
<223> Chothia Kabat LCDR1

<400> 11
Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 12
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN

<223> Chothia Kabat LCDR2

<400> 12

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 13

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> DOMAIN

<223> Chothia IMGT Kabat LCDR3

<400> 13

Gln Gln Ser Tyr Ser Thr Pro Leu Thr
1 5

<210> 14

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> DOMAIN

<223> IMGT HCDR1

<400> 14

Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 15

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> DOMAIN

<223> IMGT HCDR2

<400> 15

Ile Tyr Ser Gly Gly Ser Thr
1 5

<210> 16

<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN
<223> IMGT HCDR3

<400> 16
Thr Arg His Gly Gly Asp Ser Gly Ser Trp Ser Tyr Tyr Tyr Tyr Gly
1 5 10 15
Met Asp Val

<210> 17
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN
<223> IMGT LCDR1

<400> 17
Gln Ser Ile Ser Ser Tyr
1 5

<210> 18
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN
<223> IMGT LCDR2

<400> 18
Ala Ala Ser
1

<210> 19
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> DOMAIN

<223> Kabat HCDR1

<400> 19

Ser Tyr Ala Met Ser
1 5

<210> 20

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> DOMAIN

<223> Kabat HCDR2

<400> 20

Ala Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 21

<211> 455

<212> PRT

<213> Artificial Sequence

<220>

<221> CHAIN

<223> Heavy chain of NEC49

<400> 21

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 Ser Ser Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ala Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95
Arg His Gly Gly Asp Ser Gly Ser Trp Ser Tyr Tyr Tyr Tyr Gly Met
100 105 110
Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr
115 120 125
Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
130 135 140

Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170						175
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185						190	
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
				245					250						255
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265						270	
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
				325					330						335
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345						350	
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410						415
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425						430	
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
		435					440						445		
Leu	Ser	Leu	Ser	Pro	Gly	Lys									
	450					455									

<210> 22
 <211> 214
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> CHAIN
 <223> Light chain of NEC49

<400> 22

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30
Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Leu
85 90 95
Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala
100 105 110
Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140
Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160
Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175
Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190
Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205
Phe Asn Arg Gly Glu Cys
210

<210> 23

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<223> Tetrapeptide linker unit

<400> 23

Gly Gly Phe Gly

1