

eolf-seq1  
SEQUENCE LISTING

<110> Apitope International NV

<120> Composition

<130> P106152PCT

<150> GB 1423171.6

<151> 2014-12-24

<150> GB 1520190.8

<151> 2015-11-16

<150> GB 1520196.5

<151> 2015-11-16

<150> GB 1520199.9

<151> 2015-11-16

<160> 4

<170> PatentIn version 3.5

<210> 1

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Thyroid Stimulating Hormone Receptor (TSHR) peptide RNB-5D-K1

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Lys Lys Lys Lys Tyr Val Ser Ile Asp Val Thr Leu Gln Gln Leu Glu  
1 5 10 15

Ser His Lys Lys Lys  
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<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> TSHR peptide RNB-9B

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Gly Leu Lys Met Phe Pro Asp Leu Thr Lys Val Tyr Ser Thr Asp  
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<212> PRT

<213> Homo sapiens

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

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290 295 300

Ser Met Gln Ser Leu Arg Gln Arg Lys Ser Val Asn Ala Leu Asn Ser  
305 310 315 320

Pro Leu His Gln Glu Tyr Glu Glu Asn Leu Gly Asp Ser Ile Val Gly  
325 330 335

Tyr Lys Glu Lys Ser Lys Phe Gln Asp Thr His Asn Asn Ala His Tyr  
340 345 350

Tyr Val Phe Phe Glu Glu Gln Glu Asp Glu Ile Ile Gly Phe Gly Gln  
355 360 365

Glu Leu Lys Asn Pro Gln Glu Glu Thr Leu Gln Ala Phe Asp Ser His  
370 375 380

Tyr Asp Tyr Thr Ile Cys Gly Asp Ser Glu Asp Met Val Cys Thr Pro  
385 390 395 400

Lys Ser Asp Glu Phe Asn Pro Cys Glu Asp Ile Met Gly Tyr Lys Phe  
405 410 415

Leu Arg Ile Val Val Trp Phe Val Ser Leu Leu Ala Leu Leu Gly Asn  
420 425 430

Val Phe Val Leu Leu Ile Leu Leu Thr Ser His Tyr Lys Leu Asn Val  
435 440 445

Pro Arg Phe Leu Met Cys Asn Leu Ala Phe Ala Asp Phe Cys Met Gly  
450 455 460

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

Tyr Tyr Asn His Ala Ile Asp Trp Gln Thr Gly Pro Gly Cys Asn Thr  
485 490 495

Ala Gly Phe Phe Thr Val Phe Ala Ser Glu Leu Ser Val Tyr Thr Leu  
500 505 510

Thr Val Ile Thr Leu Glu Arg Trp Tyr Ala Ile Thr Phe Ala Met Arg  
515 520 525

Leu Asp Arg Lys Ile Arg Leu Arg His Ala Cys Ala Ile Met Val Gly  
530 535 540

Gly Trp Val Cys Cys Phe Leu Leu Ala Leu Leu Pro Leu Val Gly Ile  
545 550 555 560

Ser Ser Tyr Ala Lys Val Ser Ile Cys Leu Pro Met Asp Thr Glu Thr

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570

565

575

Pro Leu Ala Leu Ala Tyr Ile Val Phe Val Leu Thr Leu Asn Ile Val  
580 585 590

Ala Phe Val Ile Val Cys Cys Cys Tyr Val Lys Ile Tyr Ile Thr Val  
595 600 605

Arg Asn Pro Gln Tyr Asn Pro Gly Asp Lys Asp Thr Lys Ile Ala Lys  
610 615 620

Arg Met Ala Val Leu Ile Phe Thr Asp Phe Ile Cys Met Ala Pro Ile  
625 630 635 640

Ser Phe Tyr Ala Leu Ser Ala Ile Leu Asn Lys Pro Leu Ile Thr Val  
645 650 655

Ser Asn Ser Lys Ile Leu Leu Val Leu Phe Tyr Pro Leu Asn Ser Cys  
660 665 670

Ala Asn Pro Phe Leu Tyr Ala Ile Phe Thr Lys Ala Phe Gln Arg Asp  
675 680 685

Val Phe Ile Leu Leu Ser Lys Phe Gly Ile Cys Lys Arg Gln Ala Gln  
690 695 700

Ala Tyr Arg Gly Gln Arg Val Pro Pro Lys Asn Ser Thr Asp Ile Gln  
705 710 715 720

Val Gln Lys Val Thr His Asp Met Arg Gln Gly Leu His Asn Met Glu  
725 730 735

Asp Val Tyr Glu Leu Ile Glu Asn Ser His Leu Thr Pro Lys Lys Gln  
740 745 750

Gly Gln Ile Ser Glu Glu Tyr Met Gln Thr Val Leu  
755 760

<210> 4

<211> 21

<212> PRT

<213> Artificial sequence

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<223> TSHR peptide RNB-4K-GKK

<400> 4

Lys Lys Gly Asn Leu Pro Asn Ile Ser Arg Ile Tyr Val Ser Ile Asp  
1 5 10 15

Val Thr Gly Lys Lys  
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