

SEQUENCE LISTING

<110> Alectos Therapeutics Inc.

<120> NON-LYSOSOMAL GLUCOSYLCERAMIDASE INHIBITORS AND USES THEREOF

<130> 10103-032W01

<140> Not Yet Assigned

<141> 2021-05-06

<150> 63/021,432

<151> 2020-05-07

<160> 1

<170> PatentIn version 3.5

<210> 1

<211> 926

<212> PRT

<213> Homo sapiens

<400> 1

Met Gly Thr Gln Asp Pro Gly Asn Met Gly Thr Gly Val Pro Ala Ser
1 5 10 15

Glu Gln Ile Ser Cys Ala Lys Glu Asp Pro Gln Val Tyr Cys Pro Glu
20 25 30

Glu Thr Gly Gly Thr Lys Asp Val Gln Val Thr Asp Cys Lys Ser Pro
35 40 45

Glu Asp Ser Arg Pro Pro Lys Glu Thr Asp Cys Cys Asn Pro Glu Asp
50 55 60

Ser Gly Gln Leu Met Val Ser Tyr Glu Gly Lys Ala Met Gly Tyr Gln
65 70 75 80

Val Pro Pro Phe Gly Trp Arg Ile Cys Leu Ala His Glu Phe Thr Glu
85 90 95

Lys Arg Lys Pro Phe Gln Ala Asn Asn Val Ser Leu Ser Asn Met Ile
100 105 110

Lys His Ile Gly Met Gly Leu Arg Tyr Leu Gln Trp Trp Tyr Arg Lys

115

120

125

Thr His Val Glu Lys Lys Thr Pro Phe Ile Asp Met Ile Asn Ser Val
 130 135 140

Pro Leu Arg Gln Ile Tyr Gly Cys Pro Leu Gly Gly Ile Gly Gly Gly
 145 150 155 160

Thr Ile Thr Arg Gly Trp Arg Gly Gln Phe Cys Arg Trp Gln Leu Asn
 165 170 175

Pro Gly Met Tyr Gln His Arg Thr Val Ile Ala Asp Gln Phe Thr Val
 180 185 190

Cys Leu Arg Arg Glu Gly Gln Thr Val Tyr Gln Gln Val Leu Ser Leu
 195 200 205

Glu Arg Pro Ser Val Leu Arg Ser Trp Asn Trp Gly Leu Cys Gly Tyr
 210 215 220

Phe Ala Phe Tyr His Ala Leu Tyr Pro Arg Ala Trp Thr Val Tyr Gln
 225 230 235 240

Leu Pro Gly Gln Asn Val Thr Leu Thr Cys Arg Gln Ile Thr Pro Ile
 245 250 255

Leu Pro His Asp Tyr Gln Asp Ser Ser Leu Pro Val Gly Val Phe Val
 260 265 270

Trp Asp Val Glu Asn Glu Gly Asp Glu Ala Leu Asp Val Ser Ile Met
 275 280 285

Phe Ser Met Arg Asn Gly Leu Gly Gly Gly Asp Asp Ala Pro Gly Gly
 290 295 300

Leu Trp Asn Glu Pro Phe Cys Leu Glu Arg Ser Gly Glu Thr Val Arg
 305 310 315 320

Gly Leu Leu Leu His His Pro Thr Leu Pro Asn Pro Tyr Thr Met Ala
 325 330 335

Val Ala Ala Arg Val Thr Ala Ala Thr Thr Val Thr His Ile Thr Ala
340 345 350

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

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

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

Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp Met Pro Arg
405 410 415

Ile Met Phe Ala Lys Gly Gln Val His Tyr Arg Arg Tyr Thr Arg Phe
420 425 430

Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser His Tyr Ala Leu
435 440 445

Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala Trp Gln Ser Pro
450 455 460

Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys Ser Ala Leu Phe
465 470 475 480

Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val Trp Leu Glu Val
485 490 495

Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn Met Cys His Leu
500 505 510

Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr Leu Glu Gly Gln
515 520 525

Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe Tyr Ala Ser Phe
530 535 540

Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser Leu Gln Tyr Asp

545		550		555		560									
Met	Ala	Leu	Ala	Thr	Leu	Arg	Glu	Asp	Leu	Thr	Arg	Arg	Arg	Tyr	Leu
				565					570					575	
Met	Ser	Gly	Val	Met	Ala	Pro	Val	Lys	Arg	Arg	Asn	Val	Ile	Pro	His
			580					585					590		
Asp	Ile	Gly	Asp	Pro	Asp	Asp	Glu	Pro	Trp	Leu	Arg	Val	Asn	Ala	Tyr
		595					600					605			
Leu	Ile	His	Asp	Thr	Ala	Asp	Trp	Lys	Asp	Leu	Asn	Leu	Lys	Phe	Val
	610					615					620				
Leu	Gln	Val	Tyr	Arg	Asp	Tyr	Tyr	Leu	Thr	Gly	Asp	Gln	Asn	Phe	Leu
625					630					635					640
Lys	Asp	Met	Trp	Pro	Val	Cys	Leu	Ala	Val	Met	Glu	Ser	Glu	Met	Lys
				645					650					655	
Phe	Asp	Lys	Asp	His	Asp	Gly	Leu	Ile	Glu	Asn	Gly	Gly	Tyr	Ala	Asp
			660					665					670		
Gln	Thr	Tyr	Asp	Gly	Trp	Val	Thr	Thr	Gly	Pro	Ser	Ala	Tyr	Cys	Gly
		675					680					685			
Gly	Leu	Trp	Leu	Ala	Ala	Val	Ala	Val	Met	Val	Gln	Met	Ala	Ala	Leu
	690					695					700				
Cys	Gly	Ala	Gln	Asp	Ile	Gln	Asp	Lys	Phe	Ser	Ser	Ile	Leu	Ser	Arg
705					710					715					720
Gly	Gln	Glu	Ala	Tyr	Glu	Arg	Leu	Leu	Trp	Asn	Gly	Arg	Tyr	Tyr	Asn
				725					730					735	
Tyr	Asp	Ser	Ser	Ser	Arg	Pro	Gln	Ser	Arg	Ser	Val	Met	Ser	Asp	Gln
			740					745					750		
Cys	Ala	Gly	Gln	Trp	Phe	Leu	Lys	Ala	Cys	Gly	Leu	Gly	Glu	Gly	Asp
		755					760					765			

Thr Glu Val Phe Pro Thr Gln His Val Val Arg Ala Leu Gln Thr Ile
770 775 780

Phe Glu Leu Asn Val Gln Ala Phe Ala Gly Gly Ala Met Gly Ala Val
785 790 795 800

Asn Gly Met Gln Pro His Gly Val Pro Asp Lys Ser Ser Val Gln Ser
805 810 815

Asp Glu Val Trp Val Gly Val Val Tyr Gly Leu Ala Ala Thr Met Ile
820 825 830

Gln Glu Gly Leu Thr Trp Glu Gly Phe Gln Thr Ala Glu Gly Cys Tyr
835 840 845

Arg Thr Val Trp Glu Arg Leu Gly Leu Ala Phe Gln Thr Pro Glu Ala
850 855 860

Tyr Cys Gln Gln Arg Val Phe Arg Ser Leu Ala Tyr Met Arg Pro Leu
865 870 875 880

Ser Ile Trp Ala Met Gln Leu Ala Leu Gln Gln Gln Gln His Lys Lys
885 890 895

Ala Ser Trp Pro Lys Val Lys Gln Gly Thr Gly Leu Arg Thr Gly Pro
900 905 910

Met Phe Gly Pro Lys Glu Ala Met Ala Asn Leu Ser Pro Glu
915 920 925