

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (OP-122)

CAMUPEPIMUT

PRONUNCIATION

kam" ue pep' i mut

THERAPEUTIC CLAIM

Treatment of Kirsten rat sarcoma (KRAS) or neuroblastoma ras (NRAS) viral oncogene homolog mutated solid tumors

DESCRIPTION

ELI-002 7P drug product is being developed by Elicio as an immunotherapy consisting of a mixture of seven lipid-conjugated mutant Kirsten rat sarcoma (mKRAS) peptide-based antigen drug substances [amphiphilic peptide drug substances, HCl salt forms (Amph-G12D HCl, Amph-G12V HCl, Amph-G12R HCl, Amph-G12A HCl, Amph-G12S HCl, Amph-G13D HCl, and Amph-G12C HCl)] and a lipid-conjugated immune-stimulatory oligonucleotide adjuvant {referred to as Amph-CpG-7909 [(CAS Reg. No.) 2375813-25-3]}.

CHEMICAL NAMES

CAS names

Amph-G12D HCl

L-Isoleucine, S-[1-[(163*R*)-160-hydroxy-160-oxido-3,79,155,166-tetraoxo-163-[(1-oxooctadecyl)oxy]-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152,159,161,165-henpentacontaoxa-4,80,156-triaza-160-phosphatrioctacontahect-1-yl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L- α -aspartylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-, hydrochloride (1:3)

Amph-G12V HCl

L-Isoleucine, S-[1-[(163*R*)-160-hydroxy-160-oxido-3,79,155,166-tetraoxo-163-[(1-oxooctadecyl)oxy]-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152,159,161,165-henpentacontaoxa-4,80,156-triaza-160-phosphatrioctacontahect-1-yl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-valylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-, hydrochloride (1:3)

Amph-G12R HCl

L-Isoleucine, S-[1-[(163*R*)-160-hydroxy-160-oxido-3,79,155,166-tetraoxo-163-[(1-oxooctadecyl)oxy]-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152,159,161,165-henpentacontaoxa-4,80,156-triaza-160-phosphatrioctacontahect-1-yl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-arginylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-, hydrochloride (1:4)

Amph-G12A HCl

L-Isoleucine, S-[1-[(163*R*)-160-hydroxy-160-oxido-3,79,155,166-tetraoxo-163-[(1-oxooctadecyl)oxy]-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152,159,161,165-henpentacontaoxa-4,80,156-triaza-160-phosphatrioctacontahect-1-yl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-alanylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-, hydrochloride (1:3)

Amph-G12S HCl

L-Isoleucine, S-[1-[(163*R*)-160-hydroxy-160-oxido-3,79,155,166-tetraoxo-163-[(1-oxooctadecyl)oxy]-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152,159,161,165-henpentacontaoxa-4,80,156-triaza-160-phosphatrioctacontahect-1-yl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-serylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-, hydrochloride (1:3)

Amph-G13D HCl

L-Isoleucine, S-[1-[(163*R*)-160-hydroxy-160-oxido-3,79,155,166-tetraoxo-163-[(1-oxooctadecyl)oxy]-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152,159,161,165-henpentacontaoxa-4,80,156-triaza-160-phosphatrioctacontahect-1-yl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanylglycyl-L- α -aspartyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-, hydrochloride (1:3)

Amph-G12C HCl

L-Isoleucine, L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-S-[1-[(163*R*)-160-hydroxy-160-oxido-3,79,155,166-tetraoxo-163-[(1-oxooctadecyl)oxy]-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152,159,161,165-henpentacontaoxa-4,80,156-triaza-160-phosphatrioctacontahect-1-yl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-, hydrochloride (1:3)

Amph-CpG-7909

DNA, d(*P*-thio)(T-C-G-T-C-G-T-T-T-G-T-C-G-T-T-T-G-T-C-G-T-T), 5'-[O-[3-[(1-oxooctadecyl)amino]-2-[(1-oxooctadecyl)amino]methyl]propyl] hydrogen phosphorothioate], sodium salt (1:24)

IUPAC names

Amph-G12D HCl

S-(1-(1-(((*R*)-2,3-Bis(stearoyloxy)propoxy)(hydroxy)phosphoryl)oxy)-4,80,156-trioxo-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152-octatetracontaoxa-3,79,155-triazaoctapentacontahectan-158-yl)-2,5-dioxopyrrolidin-3-yl)-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-aspartylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-L-isoleucine, trihydrochloride salt

Amph-G12V HCl

S-(1-(1-(((R)-2,3-Bis(stearoyloxy)propoxy)(hydroxy)phosphoryl)oxy)-4,80,156-trioxo-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152-octatetracontaoxa-3,79,155-triazaoctapentacontahectan-158-yl)-2,5-dioxopyrrolidin-3-yl)-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-valylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-L-isoleucine, trihydrochloride salt

Amph-G12R HCl

S-(1-(1-(((R)-2,3-Bis(stearoyloxy)propoxy)(hydroxy)phosphoryl)oxy)-4,80,156-trioxo-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152-octatetracontaoxa-3,79,155-triazaoctapentacontahectan-158-yl)-2,5-dioxopyrrolidin-3-yl)-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-arginylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-L-isoleucine, tetrahydrochloride salt

Amph-G12A HCl

S-(1-(1-(((R)-2,3-Bis(stearoyloxy)propoxy)(hydroxy)phosphoryl)oxy)-4,80,156-trioxo-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152-octatetracontaoxa-3,79,155-triazaoctapentacontahectan-158-yl)-2,5-dioxopyrrolidin-3-yl)-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-alanylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-L-isoleucine, trihydrochloride salt

Amph-G12S HCl

S-(1-(1-(((R)-2,3-Bis(stearoyloxy)propoxy)(hydroxy)phosphoryl)oxy)-4,80,156-trioxo-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152-octatetracontaoxa-3,79,155-triazaoctapentacontahectan-158-yl)-2,5-dioxopyrrolidin-3-yl)-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-L-serylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-L-isoleucine, trihydrochloride salt

Amph-G13D HCl

S-(1-(1-(((R)-2,3-Bis(stearoyloxy)propoxy)(hydroxy)phosphoryl)oxy)-4,80,156-trioxo-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152-octatetracontaoxa-3,79,155-triazaoctapentacontahectan-158-yl)-2,5-dioxopyrrolidin-3-yl)-L-cysteinyl-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanylglycyl-L-aspartyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-L-isoleucine, trihydrochloride salt

Amph-G12C HCl

N-L-tyrosyl-L-lysyl-L-leucyl-L-valyl-L-valyl-L-valylglycyl-L-alanyl-S-(1-(1-(((R)-2,3-bis(stearoyloxy)propoxy)(hydroxy)phosphoryl)oxy)-4,80,156-trioxo-7,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146,149,152-octatetracontaoxa-3,79,155-triazaoctapentacontahectan-158-yl)-2,5-dioxopyrrolidin-3-yl)-L-cysteinylglycyl-L-valylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-threonyl-L-isoleucine, trihydrochloride salt

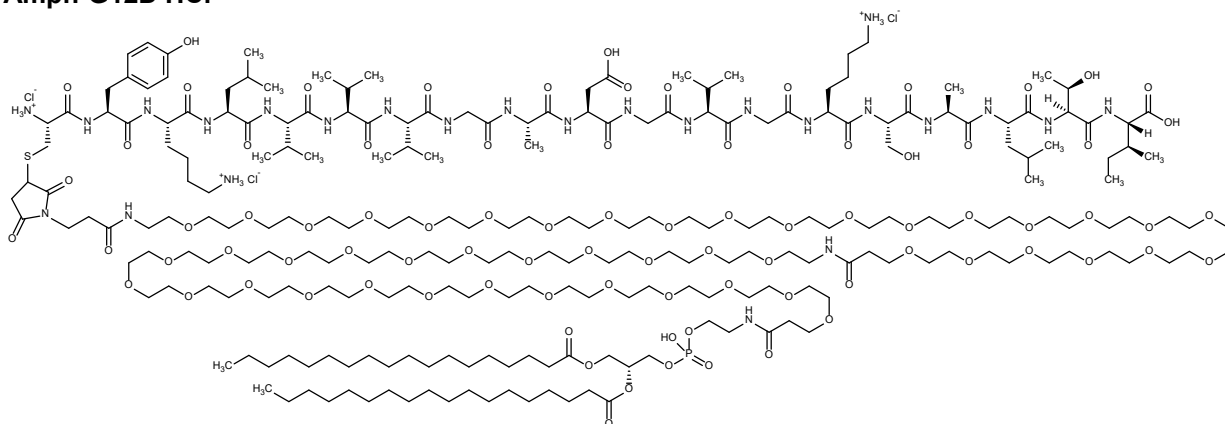
MOLECULAR FORMULAE and CAS REGISTRY NUMBERS

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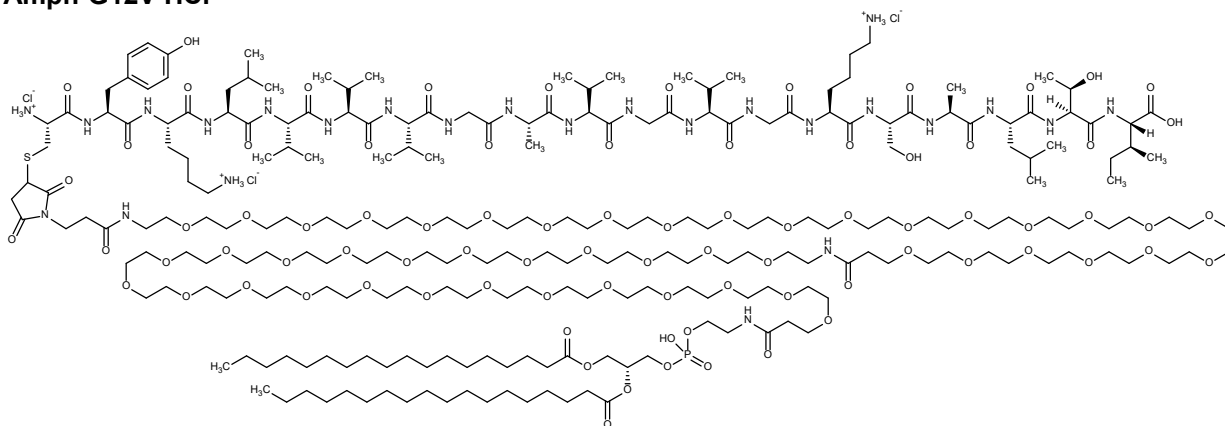
C ₂₃₆ H ₄₄₁ Cl ₃ N ₂₅ O ₈₄ PS Amph-G12R HCl	Amph-G12R HCl 3084396-00-6
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C ₂₃₄ H ₄₃₇ Cl ₃ N ₂₅ O ₈₄ PS Amph-G12S HCl	Amph-G12S HCl 3084398-16-0
C ₂₃₄ H ₄₃₇ Cl ₃ N ₂₅ O ₈₅ PS Amph-G13D HCl	Amph-G13D HCl 3084399-43-6
C ₂₃₅ H ₄₃₇ Cl ₃ N ₂₅ O ₈₆ PS Amph-G12C HCl	Amph-G12C HCl 3084399-99-2
C ₂₃₁ H ₄₃₂ Cl ₃ N ₂₄ O ₈₃ PS Amph-CpG-7909	Amph-CpG-7909 2375813-25-3
C ₂₇₅ H ₃₅₆ N ₇₂ Na ₂₄ O ₁₃₇ P ₂₄ S ₂₄	

STRUCTURES

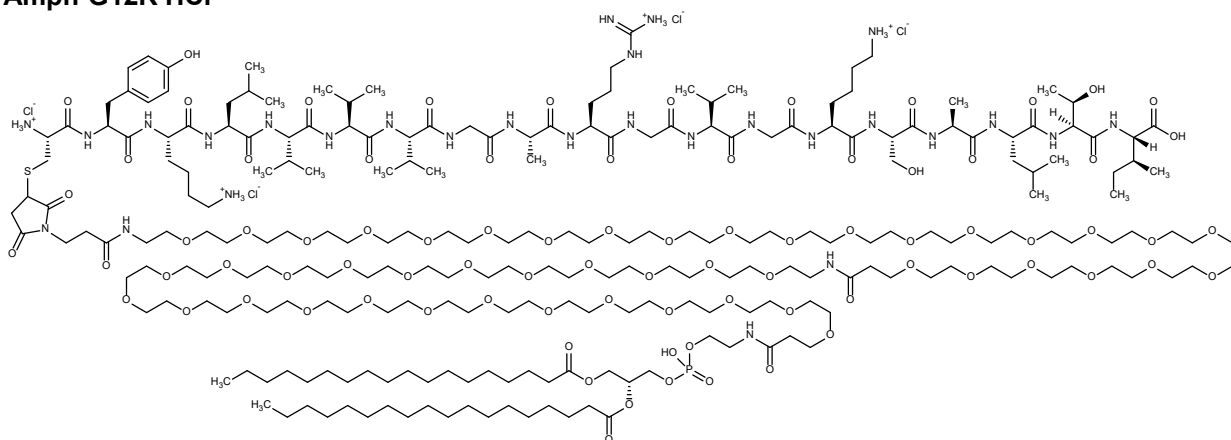
Amph-G12D HCl



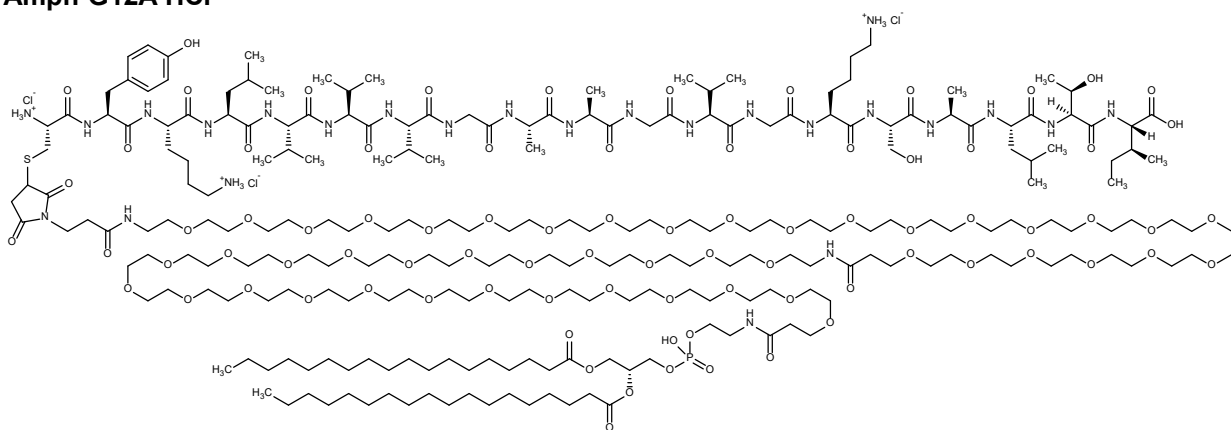
Amph-G12V HCl



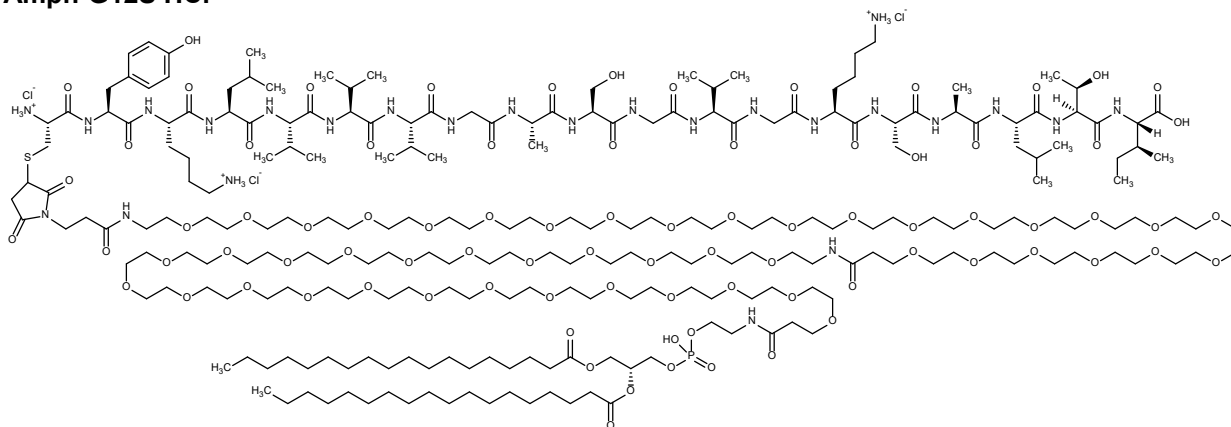
Amph-G12R HCl



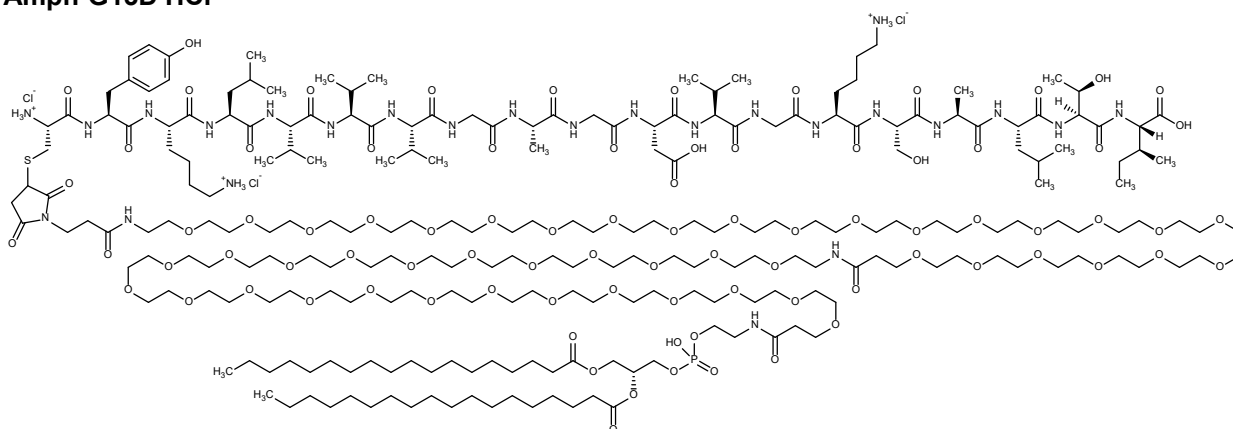
Amph-G12A HCl



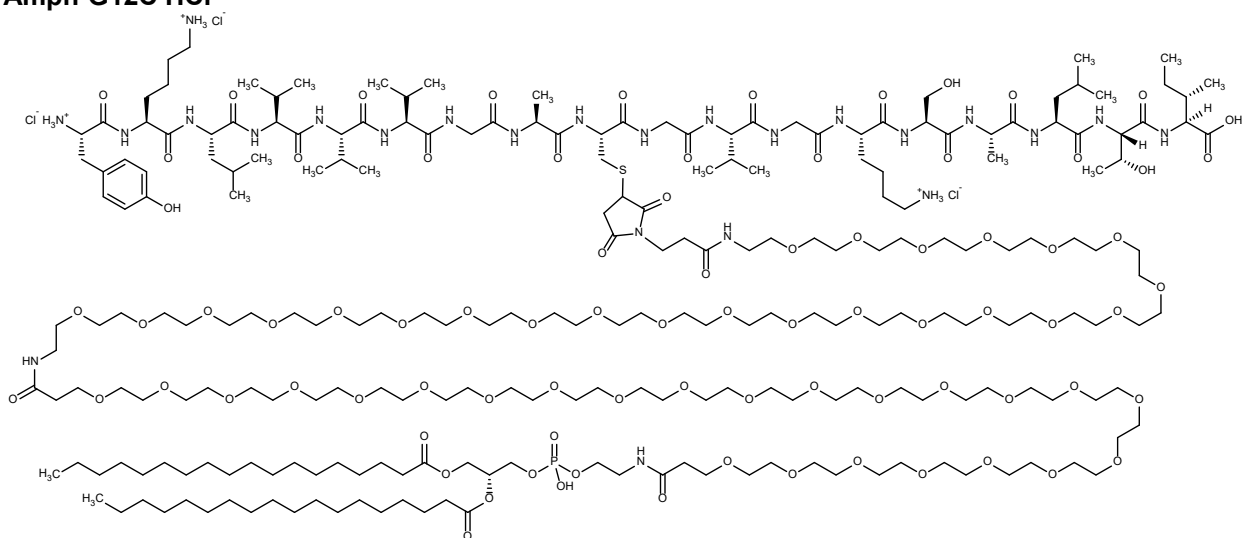
Amph-G12S HCl



Amph-G13D HCl



Amph-G12C HCl



(3'-5') R=T=C=G=T=C=G=T=T=T=T=G=T=C=G=T=T

R =

=

-sp-

Peptide Domain Name	AA Sequence	Last AA Position No.
G12D-peptide domain	CYKLVVVGAD VVGKSALTI	19
G12V-peptide domain	CYKLVVVGAV VVGKSALTI	19
G12R-peptide domain	CYKLVVVGAR VVGKSALTI	19
G12A-peptide domain	CYKLVVVGAA VVGKSALTI	19
G12S-peptide domain	CYKLVVVGAS VVGKSALTI	19
G13D-peptide domain	CYKLVVVGAG DVGKSALTI	19
G12C-peptide domain	YKLVVVGAC VVGKSALTI	18

Amph-G12D HCl	
Molecular weight	5158.55
Amph-G12V HCl	
Molecular weight	5142.60
Amph-G12R HCl	
Molecular weight	5236.11
Amph-G12A HCl	
Molecular weight	5114.54
Amph-G12S HCl	
Molecular weight	5130.54
Amph-G13D HCl	
Molecular weight	5158.55
Amph-G12C HCl	
Molecular weight	5043.47
Amph-CpG-7909	

MOLECULAR WEIGHT	8926.80
TRADEMARK	None
SPONSOR	Elicio Therapeutics, Inc.
CODE DESIGNATION	ELI-002 7P
UNII	LA9DAV9L4K JBH8Y72F7C B75B9WPJ9K DAC9LS3P7K N743GT7F84 AFZ75F2WER U6LJV8Q5BD 8CSS2AG9FK

SCS