

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (KL-173)

PEXIPEPIMUT-S

PRONUNCIATION

pex" i pep' i mut- es

THERAPEUTIC CLAIM

Treatment of squamous cell carcinoma of cervix, in combination with standard of care chemoradiotherapy, for HPV-positive anal, cervical, head and neck, penile, vaginal, vulvar cancers, and for the treatment of HPV16-positive recurrent or metastatic head and neck cancer

CHEMICAL NAMES

CAS Names

Peptide 1: KF18 (CAS RN: 2760343-45-9)

L-Phenylalanine, *N*²-(1-oxohexadecyl)-L-lysyl-L-seryl-L-serylglycyl-L-glutaminy-L-alanyl-L- α -glutamyl-L-prolyl-L- α -aspartyl-L-arginyl-L-alanyl-L-histidyl-L-tyrosyl-L-asparaginy-L-isoleucyl-L-valyl-L-threonyl-, acetate (1:?)

Peptide 2: KL24 (CAS RN: 2760343-47-1)

L-Leucine, *N*⁶-(1-oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L- α -glutamyl-L-leucyl-L-glutaminy-L-threonyl-L-threonyl-L-isoleucyl-L-histidyl-L- α -aspartyl-L-isoleucyl-L-isoleucyl-L-leucyl-L- α -glutamyl-L-cysteinyl-L-valyl-L-tyrosyl-L-cysteinyl-L-lysyl-L-glutaminy-L-glutaminy-L-leucyl-, hydrochloride (1:?)

Peptide 3: KP22 (CAS RN: 2760343-49-3)

L-Proline, *N*⁶-(1-oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-lysyl-L-lysyl-L-leucyl-L-leucyl-L-methionylglycyl-L-threonyl-L-leucylglycyl-L-isoleucyl-L-valyl-L-cysteinyl-L-prolyl-L-isoleucyl-L-cysteinyl-L-seryl-L-glutaminy-L-lysyl-, hydrochloride (1:?)

Peptide 4: KT13 (CAS RN: 2760343-51-7)

L-Threonine, *N*⁶-(1-oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-tyrosyl-L-methionyl-L-leucyl-L- α -aspartyl-L-leucyl-L-glutaminy-L-prolyl-L- α -glutamyl-L-threonyl-, acetate (1:?)

Peptide 5: KT23 (CAS RN: 2760343-52-8)

L-Threonine, *N*²-(1-oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-methionyl-L-histidylglycyl-L- α -aspartyl-L-threonyl-L-prolyl-L-threonyl-L-leucyl-L-histidyl-L- α -glutamyl-L-tyrosyl-L-methionyl-L-leucyl-L- α -aspartyl-L-leucyl-L-glutaminy-L-prolyl-L- α -glutamyl-L-threonyl-, acetate (1:?)

Peptide 6: KV12 (CAS RN: 2760343-54-0)

L-Valine, *N*⁶-(1-oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-leucyl-L-leucyl-L-methionylglycyl-L-threonyl-L-leucylglycyl-L-isoleucyl-, hydrochloride (1:?)

Lipid for nanoparticles (CAS RN: 328250-29-9)

1-Propanaminium, *N,N,N*-trimethyl-2,3-bis[[*(9Z)*-1-oxo-9-octadecen-1-yl]oxy]-, (*2R*)-

(Source: submission SciFinder; ACI)

IUPAC Names

Peptide 1: KF18 (CAS RN: 2760343-45-9)

*N*⁶-(1-Oxohexadecyl)-L-lysyl-L-seryl-L-serylglycyl-L-glutaminy-L-alanyl-L- α -glutamyl-L-prolyl-L- α -aspartyl-L-arginyl-L-alanyl-L-histidyl-L-tyrosyl-L-asparaginy-L-iso-leucyl-L-valyl-L-threonyl-L-phenylalanine, acetate (1:?)

Peptide 2: KL24 (CAS RN: 2760343-47-1)

*N*⁶-(1-Oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L- α -glutamyl-L-leucyl-L-glutaminy-L-threonyl-L-threonyl-L-iso-leucyl-L-histidyl-L- α -aspartyl-L-iso-leucyl-L-iso-leucyl-L-leucyl-L- α -glutamyl-L-cysteinyl-L-valyl-L-tyrosyl-L-cysteinyl-L-lysyl-L-glutaminy-L-glutaminy-L-leucyl-L-leucine, hydrochloride (1:?)

Peptide 3: KP22 (CAS RN: 2760343-49-3)

*N*⁶-(1-Oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-lysyl-L-lysyl-L-leucyl-L-leucyl-L-methionylglycyl-L-threonyl-L-leucylglycyl-L-iso-leucyl-L-valyl-L-cysteinyl-L-prolyl-L-iso-leucyl-L-cysteinyl-L-seryl-L-glutaminy-L-lysyl-L-proline, hydrochloride (1:?)

Peptide 4: KT13 (CAS RN: 2760343-51-7)

*N*⁶-(1-Oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-tyrosyl-L-methionyl-L-leucyl-L- α -aspartyl-L-leucyl-L-glutaminy-L-prolyl-L- α -glutamyl-L-threonyl-L-threonine, acetate (1:?)

Peptide 5: KT23 (CAS RN: 2760343-52-8)

*N*⁶-(1-Oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-methionyl-L-histidylglycyl-L- α -aspartyl-L-threonyl-L-prolyl-L-threonyl-L-leucyl-L-histidyl-L- α -glutamyl-L-tyrosyl-L-methionyl-L-leucyl-L- α -aspartyl-L-leucyl-L-glutaminy-L-prolyl-L- α -glutamyl-L-threonyl-L-threonine, acetate (1:?)

Peptide 6: KV12 (CAS RN: 2760343-54-0)

*N*⁶-(1-Oxohexadecyl)-L-lysyl-L-seryl-L-seryl-L-leucyl-L-leucyl-L-methionylglycyl-L-threonyl-L-leucylglycyl-L-iso-leucyl-L-valine, hydrochloride (1:?)

Lipid for nanoparticles (CAS RN: 328250-29-9)

(*R*)-*N,N,N*-Trimethyl-2,3-bis(oleoyloxy)propan-1-aminium chloride

Source AW

MOLECULAR FORMULA

Peptide 1: KF18

KSSGQAEPR AHYNIVTF

Formula: C₁₀₄H₁₆₄N₂₆O₃₀ · (C₂H₄O₂)_x

Molecular Weight: 2258.61 (free base)

Peptide 2: KL24

KSSELQTTIH DIILECVYCK QQLL

Formula: C₁₃₉H₂₃₅N₃₁O₄₀S₂ · (HCl)_x

Molecular Weight: 3044.71 (free base)

Peptide 3: KP22

KSSKLLMGT LGIVCPICSQ KP

Formula: C₁₁₈H₂₁₃N₂₇O₂₉S₃ · (HCl)_x

Molecular Weight: 2570.34 (free base)

Peptide 4: KT13

KSSMHGDTPT LHEYMLDLQP ETT
Formula: $C_{128}H_{205}N_{29}O_{41}S_2 \cdot (C_2H_4O_2)_x$
Molecular Weight: 2870.33 (free base)

Peptide 5: KT23

KSSMHGDTPT LHEYMLDLQP ETT
Formula: $C_{128}H_{205}N_{29}O_{41}S_2 \cdot (C_2H_4O_2)_x$
Molecular Weight: 2870.33 (free base)

Peptide 6: KV12

KSSLLMGTLG IV
Formula: $C_{70}H_{129}N_{13}O_{17}S \cdot (C_2H_4O_2)_x$
Molecular Weight: 1456.94 (free base)

Lipid for nanoparticles :
R-DOTAP

SPONSOR

PDS Biotechnology Corporation

CODE DESIGNATION

PDS0101

UNII

KF-18
KF-18 ACETATE
KL-24
KL-24 HYDROCHLORIDE
KP-22
KP-22 HYDROCHLORIDE
KT-13
KT-13 ACETATE
KT-23
KT-23 ACETATE
KV-12
KV-12 HYDROCHLORIDE
(R)-N,N,N-Trimethyl-2,3-bis(oleoyloxy)propan-1-
aminium chloride

G4K82JDG5V
8VXZ8FQ9H2
3H2R9QU83H
5HXP77LD9T
5C9PLC8FED
F9HW6P87BM
2M7Z4K7XVH
AZG5K3YAK9
HUX5GT2AJH
TFV8B62K3H
NHQ2UF582K
CM7LWV3FKJ
W8RN9Z2473

SCS