

Case 5:

Insulin Degludec

GIVEQCCTSI CSLYQLENYC
N

FVNQHLGSH LVEALYLVCG
ERGFFYTPK

Modified

New Peptide

New Protein

New Substance

Amino Acid Sequence

C-Terminus Modification

Structural Modification

Premise:

Well-populated System

Peptide not registered

Modified Lysine Residue *IS registered*

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Register New:

Substance

Product



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Register New:

Substance

Product

Single Substance

Mixture Substance

Specified Substance

Not Sure



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Register New:

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[Product](#)

[Single Substance](#)

[Mixture Substance](#)

[Specified Substance](#)

[Not Sure](#)

[Chemical](#)

[Protein](#)

[Nucleic Acid](#)

[Structurally Diverse](#)

[Polymer](#)



Add Name

Name:

Insulin Degludec

Language:

English



Domain:

Drug



Name Type:

Common Name

Official Name

Systematic Name

Code

Common Name

Brand Name

Public Domain:



References

(0 references)

Cancel

Done

Please select a reference

Add Name

Name:

Insulin Degludec

Language:

English



Domain:

Drug



Name Type:

Official Name



Public Domain:



Naming Org:

INN



Deprecated:



Official Jurisdiction:

US

NL

CA

DE



Add / Select References

(0 references)



Please select a reference.

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Select Reference(s)

Type

Citation

URL

Uploaded

Date

Add Reference



None selected

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Add Reference

Type:

INN List ▼

Citation:

Proposed List 101

URL:

http://whqlibdoc.who.int/inn/proposed_lists/prop_INN_list101.pdf

Upload:



Reference Date:

05/30/2013





Public Domain:



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Select Reference(s)

| | Type | Citation | URL | Uploaded | Date | |
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| <input checked="" type="checkbox"/> | INN List | Proposed List 101 | http://whqlibdoc.who... |  | 05/30/2013 |  |

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1 selected

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Select

Add Name

Name:

Insulin Degludec

Language:

English



Domain:

Drug



Name Type:

Official Name



Public Domain:



Naming Org:

Deprecated:

INN



Official Jurisdiction:

US

NL

CA

DE



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(1 reference)

Type

Citation

URL

INN List

Proposed List 101

<http://whqlibdoc.who...>



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[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)*Enter Names for Substance:*

| <i>Name:</i> | <i>Type:</i> | <i>Language:</i> | <i>Domain:</i> | <i>Preferred:</i> | |
|----------------------|--------------|------------------|----------------|-------------------------------------|---|
| Insulin Degludec | Official | English | Drug | <input checked="" type="checkbox"/> |  |
| Insulinum Degludecum | Official | Latin | Drug | <input type="checkbox"/> |  |
| инсулин деглудек | Official | Russian | Drug | <input type="checkbox"/> |  |
| 德谷胰岛素 | Official | Chinese | Drug | <input type="checkbox"/> |  |





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Register New Protein:

Protein Type:

Short Peptide



Protein subtype:



[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)Amino Acid Sequence:

Total number of Subunits:

2 ▼

Subunit 1:

Length: 21

GIVEQCCTSI CSLYQLENYC N

[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQHLCGSH LVEALYLVCG ERGFFYTPK

[N-Terminus](#)[C-Terminus](#)

Disulfide Bridges

0

Glycosylation

0

Modifications

0

[Add / Select References](#)

(0 references)

Disulfide Bridges

Subunit 1:

Length: 14

GIVEQCC¹TSI C¹SLYQLENYC¹ N

[N-Terminus](#)

[C-Terminus](#)

Subunit 2:

Length: 29

From:

To:

Select

Select



Add disulfide bridge



Done

Disulfide Bridges

(1-6)
(click to select)

Length: 14

GIVEQCCTSI CSLYQLENYC N

[N-Terminus](#)

[C-Terminus](#)

Subunit 2:

Length: 29

From:

To:

1-6

Select

Select



Add disulfide bridge



Done

Disulfide Bridges

Subunit ⁽¹⁻¹¹⁾
it (click to select)

Length: 14

GIVEQCCCTSI CSLYQLENYC N

[N-Terminus](#)

[C-Terminus](#)

Subunit 2:

Length: 29

From:

To:

1-6

Select

1-11

Select



Add disulfide bridge



Done

Disulfide Bridges

Subunit 1:

Length: 14

GIVEQCC¹TSI C¹⁴SLYQLENYC¹³ N

[N-Terminus](#)

[C-Terminus](#)

Subunit 2:

Length: 29

From:

To:

1-6

Select

1-11

Select



1-7

Select

2-7

Select



1-20

Select

2-19

Select



Add disulfide bridge



Done

[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)Amino Acid Sequence:

Total number of Subunits:

2 ▼

Subunit 1:

Length: 21

GIVEQ**C**CTSI **C**SLYQ**L**ENY**C** N[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQ**H**L**C**GS**H** LVEALYLV**C**G ERGFFYTPK[N-Terminus](#)[C-Terminus](#)

Disulfide Bridges

3

Glycosylation

0

Modifications

0

[Add / Select References](#)

(0 references)

[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)Amino Acid Sequence:

Total number of Subunits:

2 ▼

Subunit 1:

Length: 21

GIVEQ**C**CTSI **C**SLYQLENY**C** N[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQH**L****C**GSH LVEALYLV**C**G ERGFFYTPK[N-Terminus](#)[C-Terminus](#)

Structural

0

Agent

0

Physical

0

Disulfide Bridges

3

Glycosylation

0

Modifications

0

[Add / Select References](#)

(0 references)

[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)Amino Acid Sequence:

Total number of Subunits:

2 ▼

Subunit 1:

Length: 21

GIVEQ**C**CTSI **C**SLYQLENY**C** N[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQH**L****C**GSH LVEALYLV**C**G ERGFFYTPK[N-Terminus](#)[C-Terminus](#)

Structural

0

Add New



Agent

0

Physical

0

Disulfide Bridges

3

Glycosylation

0

Modifications

0

Add / Select References

(0 references)

Structural Modification

Type:

Amino Acid Replacement ▼

Location:

C-Terminus ▼

Site-Specific:

2-29

(C-Terminus)

Select

Subunit 2:

Length: 29 ▲

FVNQHLCGSH LVEALYLVCG ERGFFYTPK

N-Terminus

C-Terminus ▼

Extent:

Complete ▼

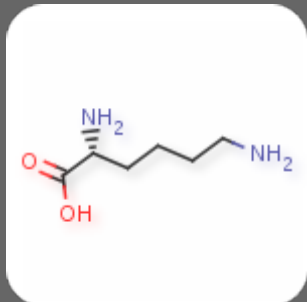
Cancel

Next

Structural Modification

Replacement :

SUBST_FJGW4



Lysine

Replaced by



Replacement
Residue

Choose



Prev

Cancel

Finish

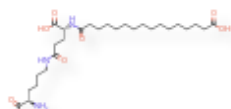
Select Replacement

All substances with tag "Amino Acid Modifications"

Search

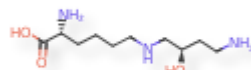


SUBST_H3824



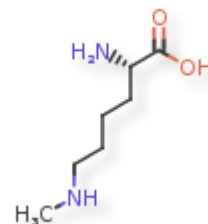
Modified Lysine,
palmitic acid ...

SSUB_JSOW2



Hypusine

SSUB_8UA92



6-N-methyllysine

102 Results

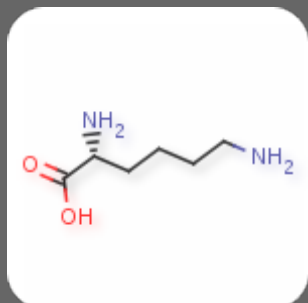
Cancel

Select

Structural Modification

Replacement :

SUBST_FJGW4

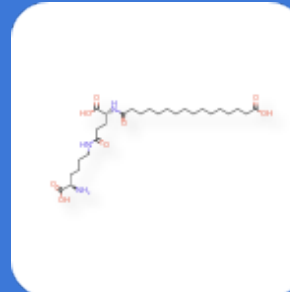


Lysine

Replaced by



SUBST_H3824



Modified Lysine,
palmitic acid ...

Prev

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[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)Amino Acid Sequence:

Total number of Subunits:

2 ▼

Subunit 1:

Length: 21

GIVEQ**C**CTSI **C**SLYQLENY**C** N[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQH**L**CGSH LVEALYLV**C**G ERGFFFYTP**K**[N-Terminus](#)[C-Terminus](#)Disulfide Bridges **3**Glycosylation **0**Modifications **1**[Add / Select References](#)

(0 references)

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Total number of Subunits:

2 ▼

Subunit 1:

Length: 21

GIVEQ**C**CTSI **C**SLYQLENY**C** N[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQH**L**CGSH LVEALYLV**C**G ERGFFYTP**K**[N-Terminus](#)[Terminus](#)

Disulfide Bridges 3

Glycosylation 0

Structural

1

C-Terminus Mod



Agent

0

Add New



Physical

0

Modifications

1

Add / Select References

(0 references)

[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)Amino Acid Sequence:

Total number of Subunits:

2 ▼

Subunit 1:

Length: 21

GIVEQ**C**CTSI **C**SLYQLENY**C** N[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQH**L**CGSH LVEALYLV**C**G ERGFFYTP**K**[N-Terminus](#)[C-Terminus](#)Disulfide Bridges **3**Glycosylation **0**Modifications **1**[Add / Select References](#)

(0 references)

(0 references)



FVNQHLCGSH LVEALYLVCG ERGFFYTPK

[Home](#)[Search](#)[Download](#)[Register](#)[Admin](#)Amino Acid Sequence:

Total number of Subunits:

2 ▼

Disulfide Bridge
(click to edit)

GIVEQCCTSI CSLYQLENYC N

Length: 21

[N-Terminus](#)[C-Terminus](#)

Subunit 2:

Length: 29

FVNQHLCGSH LVEALYLVCG ERGFFYTPK

[N-Terminus](#)[C-Terminus](#)

Disulfide Bridges 3

Glycosylation 0

Modifications 1

[Add / Select References](#)

(0 references)

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Amino Acid Sequence:

Total number of Subunits:

2 ▼

Disulfide Bridge
(click to edit)GIVEQ**C**CTSI **C**SLYQLENY**C** N

Length: 21

[N-Terminus](#)[C-Terminus](#)Subunit 2:

Length: 29

FVNQH**L**CGSH LVEALYLV**C**G ERGFFYTP**K**[N-Terminus](#)[C-Terminus](#)

Disulfide Bridges 3

Glycosylation 0

Modifications 1

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Modifications:

Are there more modifications to the substance?

Yes

No



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Sequence

2

Modifications

1

Disulfide Bridges

3

Glycosylation

0

Subunit [1](#):

Length: 14

GIVEQCCTSI CSLYQLENYC N

[N-Terminus](#)[C-Terminus](#)

Names

9

References

2

Relationships

0

Notes

0

Properties

0

Name

Lang.

Dom.

Type

Preferred:

Insulin Degludec

English

Drug

Official



Insulinum Degludecum

Latin

Drug

Official

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Successfully submitted *Single Protein Substance*:

SUBST_G45JI

GIVEQCCTSI CSLYQLENYC
N

FVNQHLGSH LVEALYLVCG
ERGFFYTPK

Modified

Insulin Degludec

Is there a more specific physical form of this substance?

