



CERTIFICATE OF ANALYSIS

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1. Identification

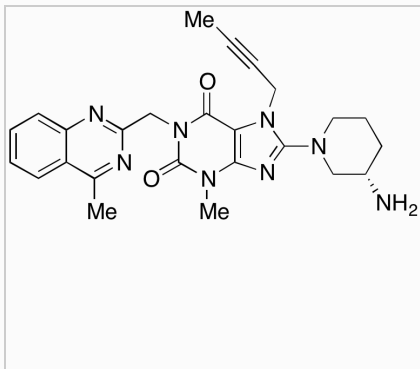
Catalogue Number: L465895

CAS Number: 668270-11-9

Product: (S)-Linagliptin

Synonym: 8-[(3S)-3-Amino-1-piperidinyl]-7-(2-butyln-1-yl)-3,7-dihydro-3-methyl-1-[(4-methyl-2-quinazolinyl)methyl]-1H-purine-2,6-dione

Structure:



Molecular Formula:

C₂₅H₂₈N₈O₂

Molecular weight:

472.54

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly)

Lot Number: 12-JLI-3-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Off-White to Dark Yellow Solid	Light Yellow to Dark Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 60.02, %H: 5.98, %N: 22.26
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.59% (225 nm)
Water Content	Report Result	~4.8% based on Elemental Analysis

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Nicole Yip	Toni Rantanen	Chanell Chu	6/15/2022	6/13/2026