

# CERTIFICATE OF ANALYSIS

(Certificate No. KML010016-01)

Release Date: 07/07/2025

Re-test Date: 06/07/2028

## Linagliptin Dimer Impurity

### Identification

**Chemical Name :**

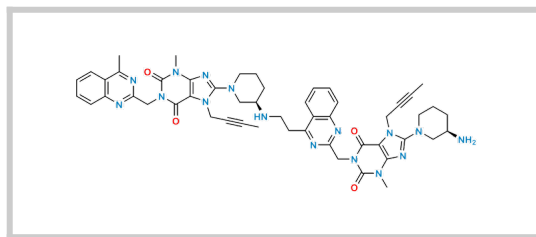
8-((R)-3-aminopiperidin-1-yl)-7-(but-2-yn-1-yl)-1-((4-(2-(((R)-1-(7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)piperidin-3-yl)amino)ethyl)quinazolin-2-yl)methyl)-3-methyl-3,7-dihydro-1H-purine-2,6-dione

CAT No. : KML010016

CAS No. : 2463617-49-2

Molecular Formula : C<sub>51</sub>H<sub>56</sub>N<sub>16</sub>O<sub>4</sub>

Molecular Weight : 957.1



### Analytical Information

Batch No. : L010016-102-116

Description : Off White Solid

HPLC Purity : 97.02 %

Weight Loss By TGA : 2.57 %

% Potency : 94.53 %

Solubility : ACN : WATER (1 : 1)

Mass : Confirm

IR : Confirm

<sup>1</sup>H NMR : Confirm

### Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 2.57(Weight Loss By TGA)] x [97.02(HPLC Purity)]/100 = 94.53 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		07/07/2025
Reviewed & Approved By	Quality Control	Jatin Patel		07/07/2025

Attachments : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA