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## CERTIFICATE OF ANALYSIS

Analysis Date: Jul 2025

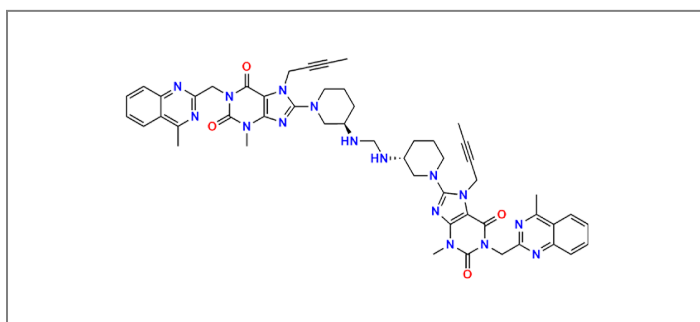
Re-test Date: Jun 2028

**Product Name: Linagliptin N,N'-Methylene Dimer**

### Identification:

Chemical Name: 8,8'-((3R,3'R)-(methylenebis(azanediyl))bis(piperidine-3,1-diyl))bis(7-(but-2-yn-1-yl)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-3,7-dihydro-1H-purine-2,6-dione)

Synonyms : NA  
CAS Number : 2489212-72-6  
CAT Number : CP-L1018  
Molecular Formula : C51H56N16O4  
Molecular Weight : 957.12  
Batch Number : CP-LIN-MD-0725  
Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C  
Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

| Sr. No. | Test               | Result                   |
|---------|--------------------|--------------------------|
| 1)      | Description        | White Solid              |
| 2)      | Solubility         | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS       | Confirm to structure     |
| 4)      | Purity By HPLC     | 97.51%                   |
| 5)      | <sup>1</sup> HNMR  | Confirm to structure     |
| 6)      | IR                 | Confirm to Structure     |
| 7)      | Weight loss by TGA | -                        |
| 8)      | Potency by TGA     | -                        |



#### Prepared and Reviewed By

  
Mr. Shubham Bondre  
(Quality Control)

#### Approved By

  
Mr. Abhijit Kale  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.