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## CERTIFICATE OF ANALYSIS

Analysis Date: Jul 2025

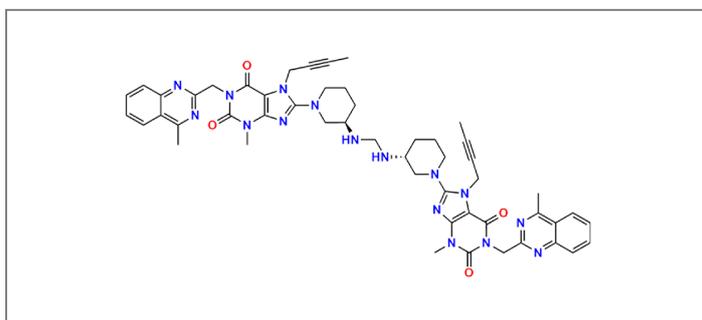
Re-test Date: Jun 2028

**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 : C<sub>51</sub>H<sub>56</sub>N<sub>16</sub>O<sub>4</sub>  
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     |



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Quality Control)

**Approved By**

Ms Rohini Gagare  
(Quality Assurance)

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