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## CERTIFICATE OF ANALYSIS

Analysis Date: Dec 2022

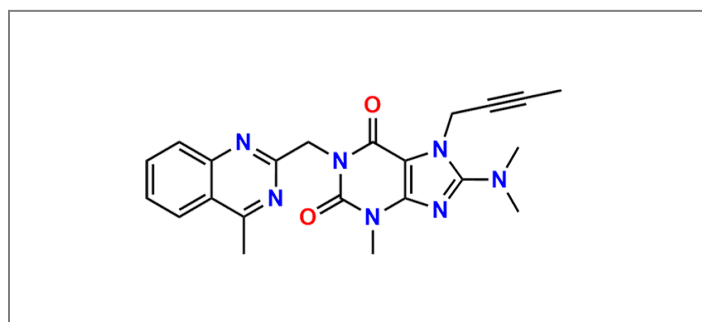
Re-test Date: Nov 2025

**Product Name: Linagliptin Impurity 18**

### Identification:

Chemical Name: 7-(but-2-yn-1-yl)-8-(dimethylamino)-3-methyl-1-((4-methylquinazolin-2-yl)methyl)-3,7-dihydro-1H-purine-2,6-dione

Synonyms : NA  
CAS Number : 1646355-34-1  
CAT Number : CP-L1007  
Molecular Formula : C<sub>22</sub>H<sub>23</sub>N<sub>7</sub>O<sub>2</sub>  
Molecular Weight : 417.46  
Batch Number : CHEM-LIN-18



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	Off White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	94.53%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

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