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## CERTIFICATE OF ANALYSIS

Analysis Date:

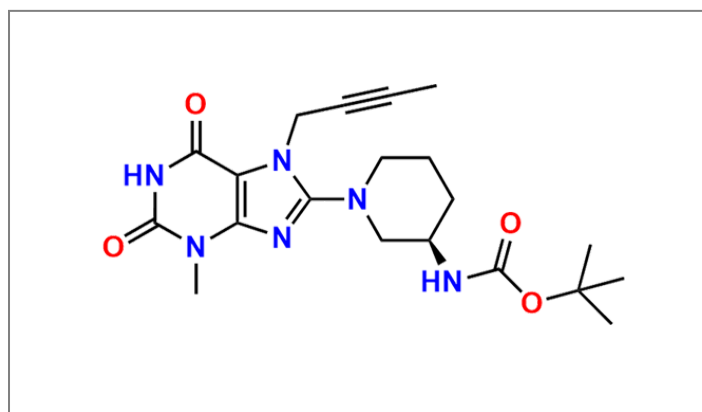
Re-test Date:

**Product Name: Linagliptin Impurity 21**

### Identification:

Chemical Name: Tert-butyl (R)-(1-(7-(but-2-yn-1-yl)-3-methyl-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)piperidin-3-yl)carbamate

Synonyms : NA  
CAS Number : 666816-91-7  
CAT Number : CP-L1060  
Molecular Formula : C<sub>20</sub>H<sub>28</sub>N<sub>6</sub>O<sub>4</sub>  
Molecular Weight : 416.5



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	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.