

Certificate of Analysis

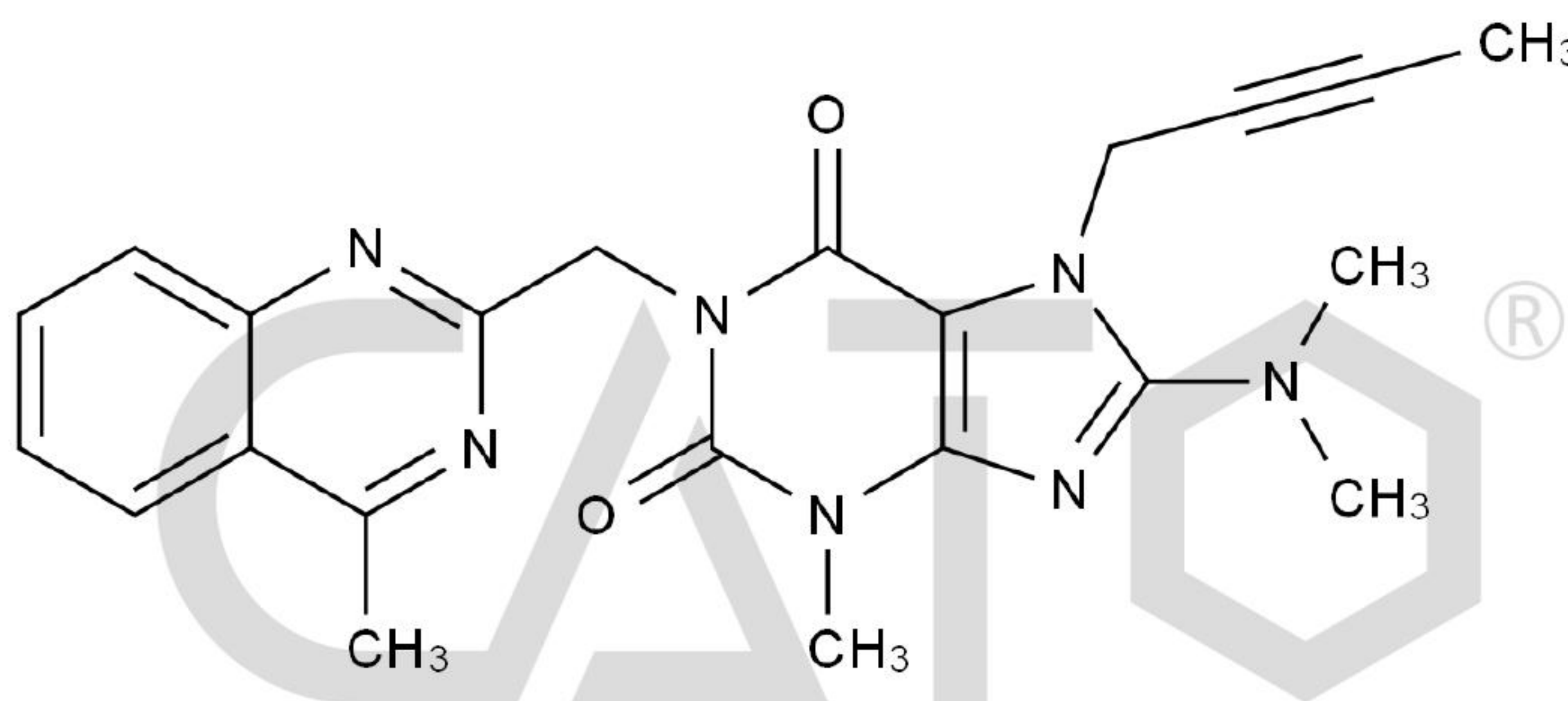
Reference Material & Standard

Product Name:	Linagliptin Impurity 10	Catalogue Number:	C4X-110110
Synonyms:	N/A	Lot Number:	1030-RG-0104
CAS Number:	1646355-34-1	Expiry Date:	Nov 03, 2029
Molecular Formula:	C ₂₂ H ₂₃ N ₇ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	417.46	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.526%
Loss On Drying	TGA	0.2566%
Assay		99.3%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) * Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

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Date: Nov 04, 2025

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