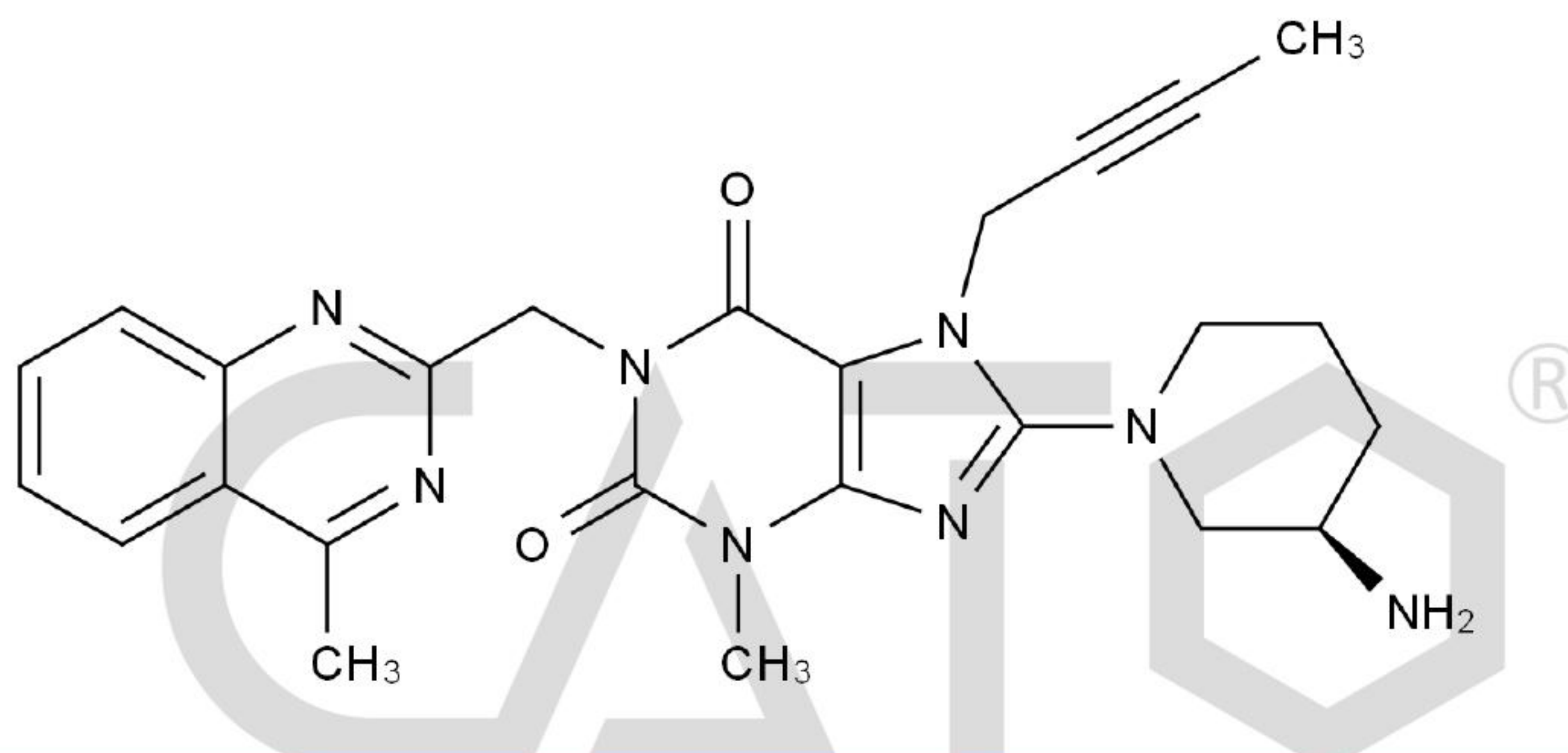


Certificate of Analysis

Reference Material & Standard

Product Name:	Linagliptin	Catalogue Number:	C4X-1101
Synonyms:	N/A	Lot Number:	0525-RH-0142
CAS Number:	668270-12-0	Expiry Date:	May 31, 2030
Molecular Formula:	C ₂₅ H ₂₈ N ₈ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	472.54	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	100.000%
Residue on Ignition	TGA	0.8201%
Loss on Drying	TGA	0.3925%
Assay		98.8%

Comment:

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

Assay (%) = (100% - Residue on Ignition - Loss on Drying) * Purity HPLC (%) / 100%

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Jul 28, 2026

Date: Jul 28, 2026

Date: Jul 28, 2026



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