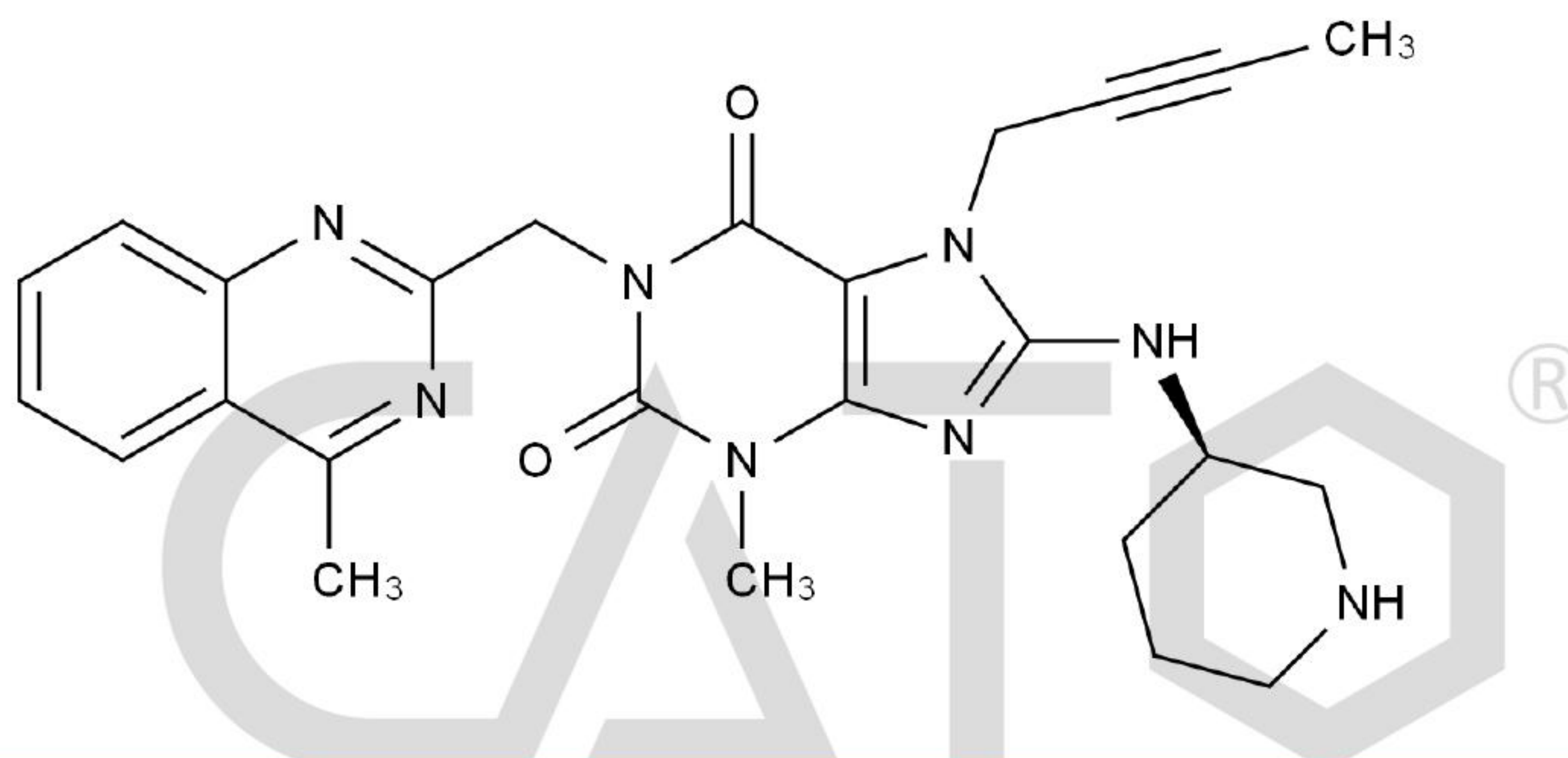


Certificate of Analysis

Reference Material & Standard

Product Name:	Linagliptin Impurity 7	Catalogue Number:	C4X-11017
Synonyms:	N/A	Lot Number:	0403-RH-0055
CAS Number:	1446263-38-2	Expiry Date:	Apr 08, 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	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.716%
Loss on Drying	TGA	0.0914%
Assay		98.6%

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:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Apr 09, 2026

Date: Apr 09, 2026

Date: Apr 09, 2026



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