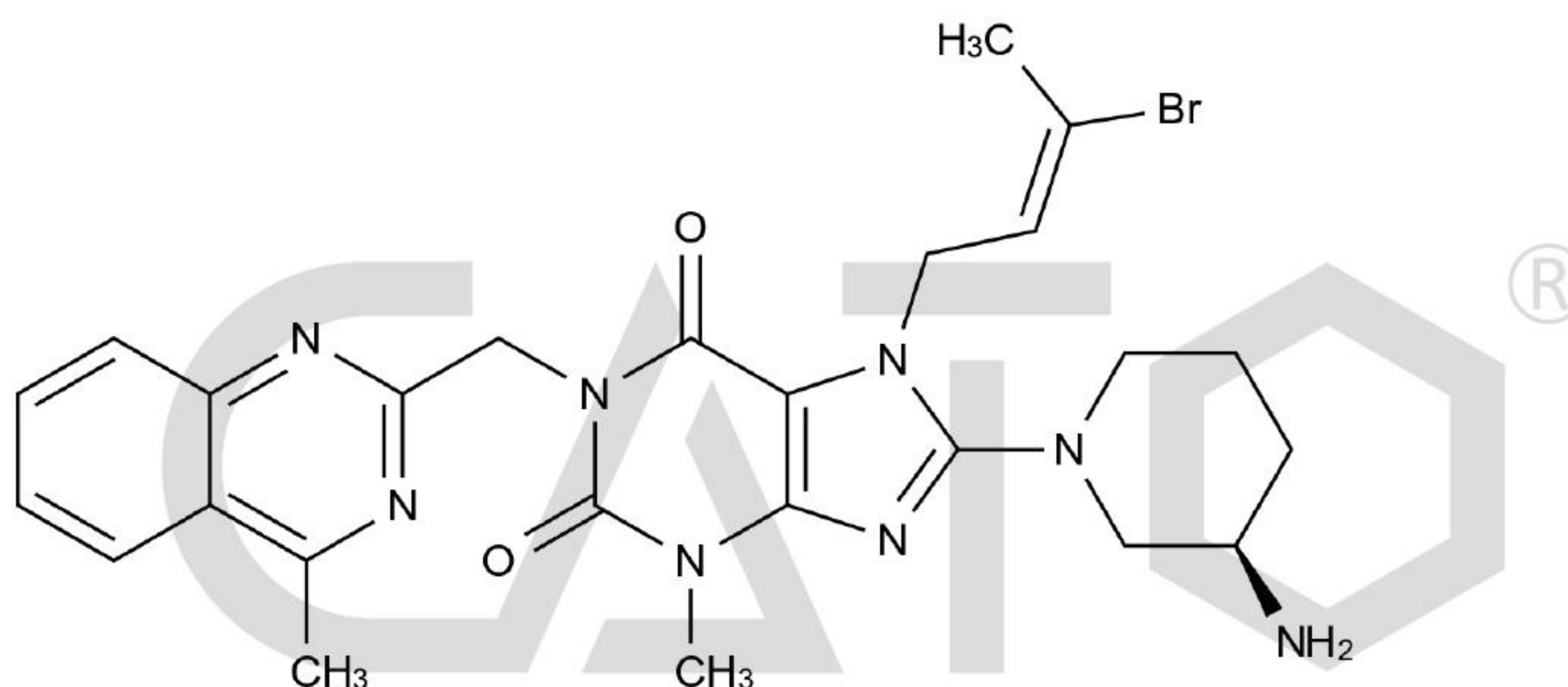


Certificate of Analysis

Reference Material & Standard

Product Name:	Linagliptin impurity N2	Catalogue Number:	C1306113
Synonyms:	N/A	Lot Number:	0526-RH-0098
CAS Number:	1446263-39-3	Expiry Date:	May 31, 2030
Molecular Formula:	C ₂₅ H ₂₉ BrN ₈ O ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	553.45	Shipping Condition:	Shipping with Ice Packs
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.829%
Loss on Drying	TGA	1.0047%
Assay		96.8%

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: Jun 01, 2026

Date: Jun 01, 2026

Date: Jun 01, 2026



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