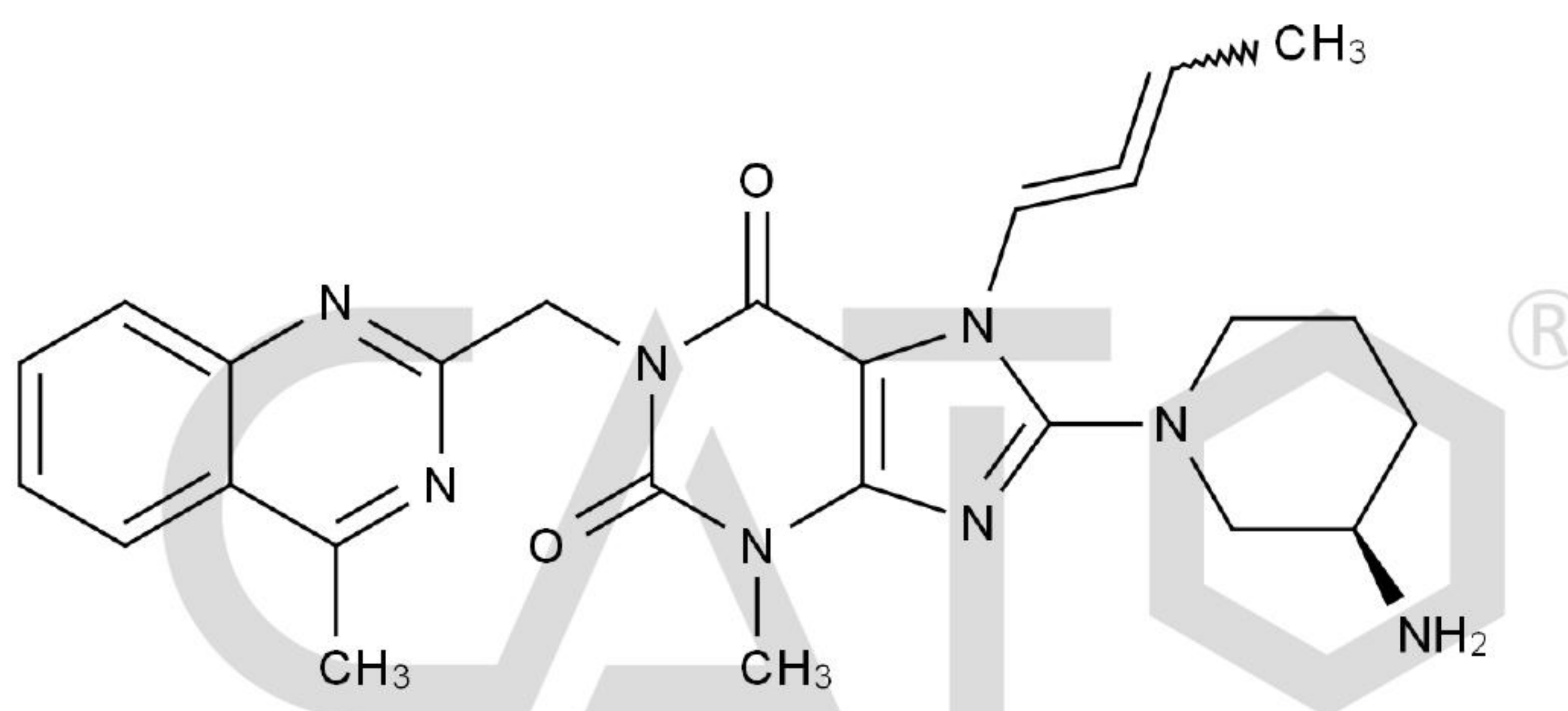


Certificate of Analysis

Reference Material & Standard

Product Name:	Linagliptin Impurity 52	Catalogue Number:	C4X-110152
Synonyms:	Linagliptin Diene Impurity	Lot Number:	0126-RH-0140
CAS Number:	2463617-43-6	Expiry Date:	Jan 27, 2028
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	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.081%
Loss On Drying	TGA	4.0297%
Assay		91.2%

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: Jan 28, 2026

Date: Jan 28, 2026

Date: Jan 28, 2026



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