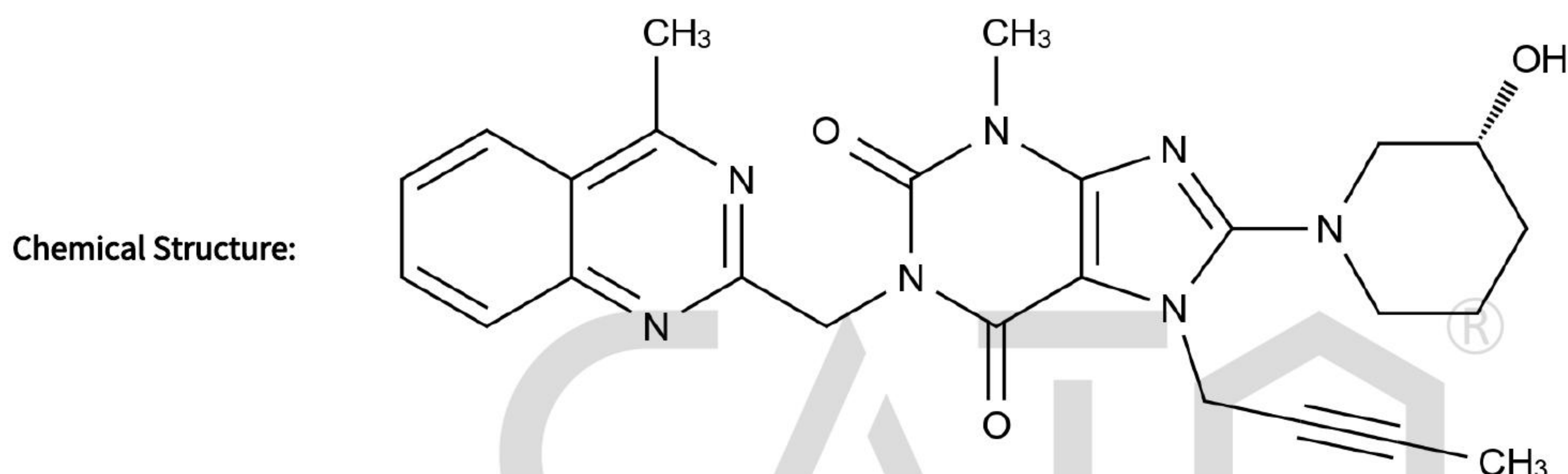


Certificate of Analysis

Reference Material & Standard

Product Name:	Linagliptin Impurity 113	Catalogue Number:	C4X-1101113
Synonyms:	N/A	Lot Number:	0724-RG-0037
CAS Number:	2803369-89-1	Expiry Date:	Jul 27, 2029
Molecular Formula:	C ₂₅ H ₂₇ N ₇ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	473.53		



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	97.040%
Loss On Drying	TGA	0.8515%
Assay		96.2%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

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

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

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Jul 28, 2025

Date: Jul 28, 2025

Date: Jul 28, 2025

