

Certificate of Analysis

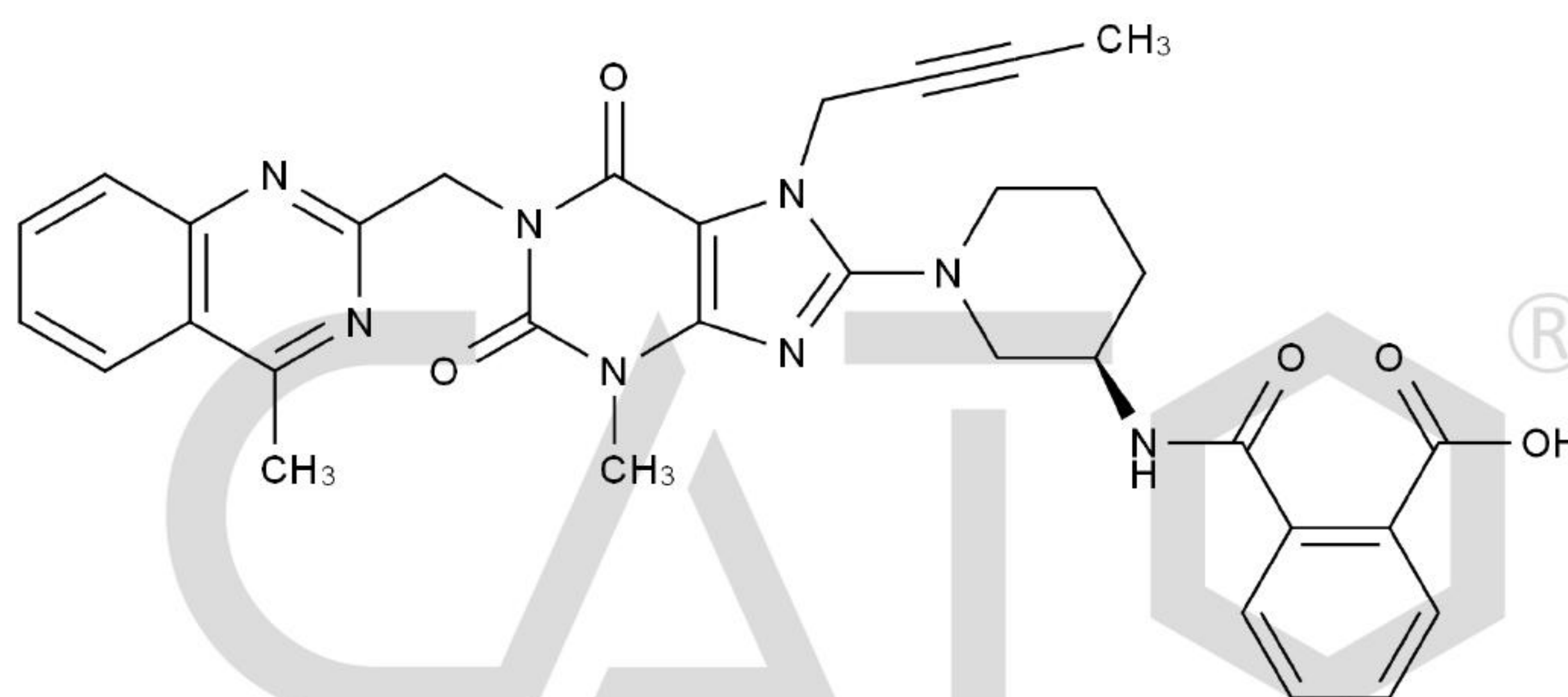
Reference Material & Standard

Product Name:	Linagliptin Impurity 42	Catalogue Number:	C4X-110142
Synonyms:	N/A	Lot Number:	0526-RH-0096
CAS Number:	2074688-81-4	Expiry Date:	Jun 03, 2030
Molecular Formula:	C ₃₃ H ₃₂ N ₈ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	620.66	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.614%
Loss on Drying	TGA	0.3652%
Assay		96.3%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Jun 04, 2026

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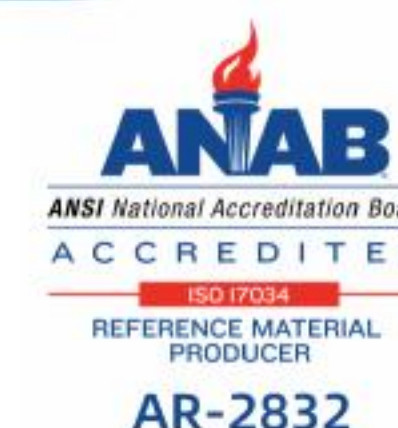
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