

Certificate of Analysis

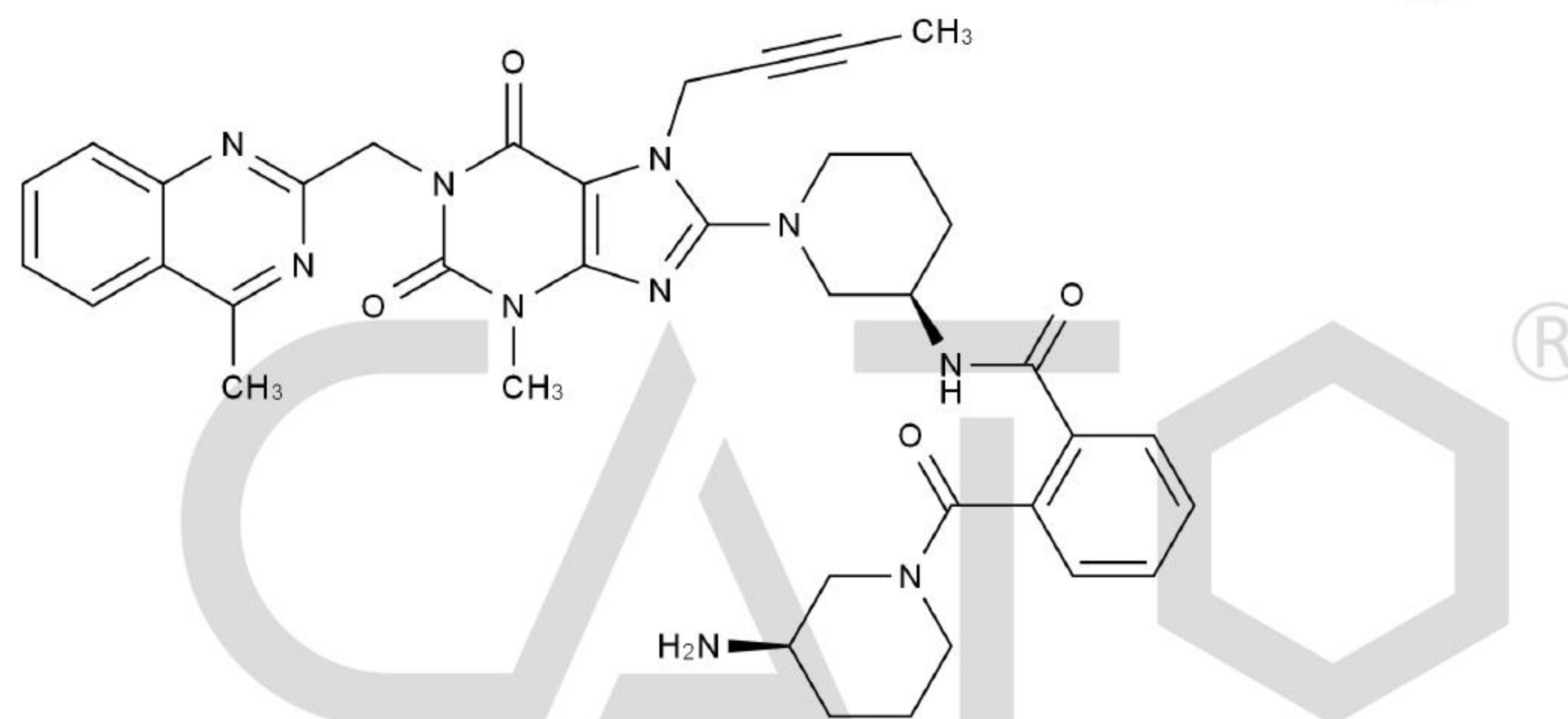
Reference Material & Standard

Product Name:	Linagliptin Impurity 45	Catalogue Number:	C4X-110145
Synonyms:	N/A	Lot Number:	0525-RH-0074
CAS Number:	N/A	Expiry Date:	Jun 02, 2030
Molecular Formula:	C ₃₈ H ₄₂ N ₁₀ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	702.80	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.253%
Loss on Drying	TGA	3.6067%
Assay		95.7%

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 03, 2026

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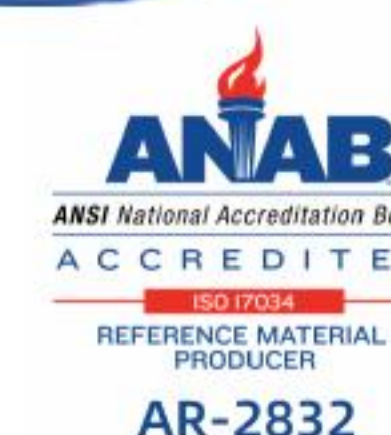
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