

Certificate of Analysis

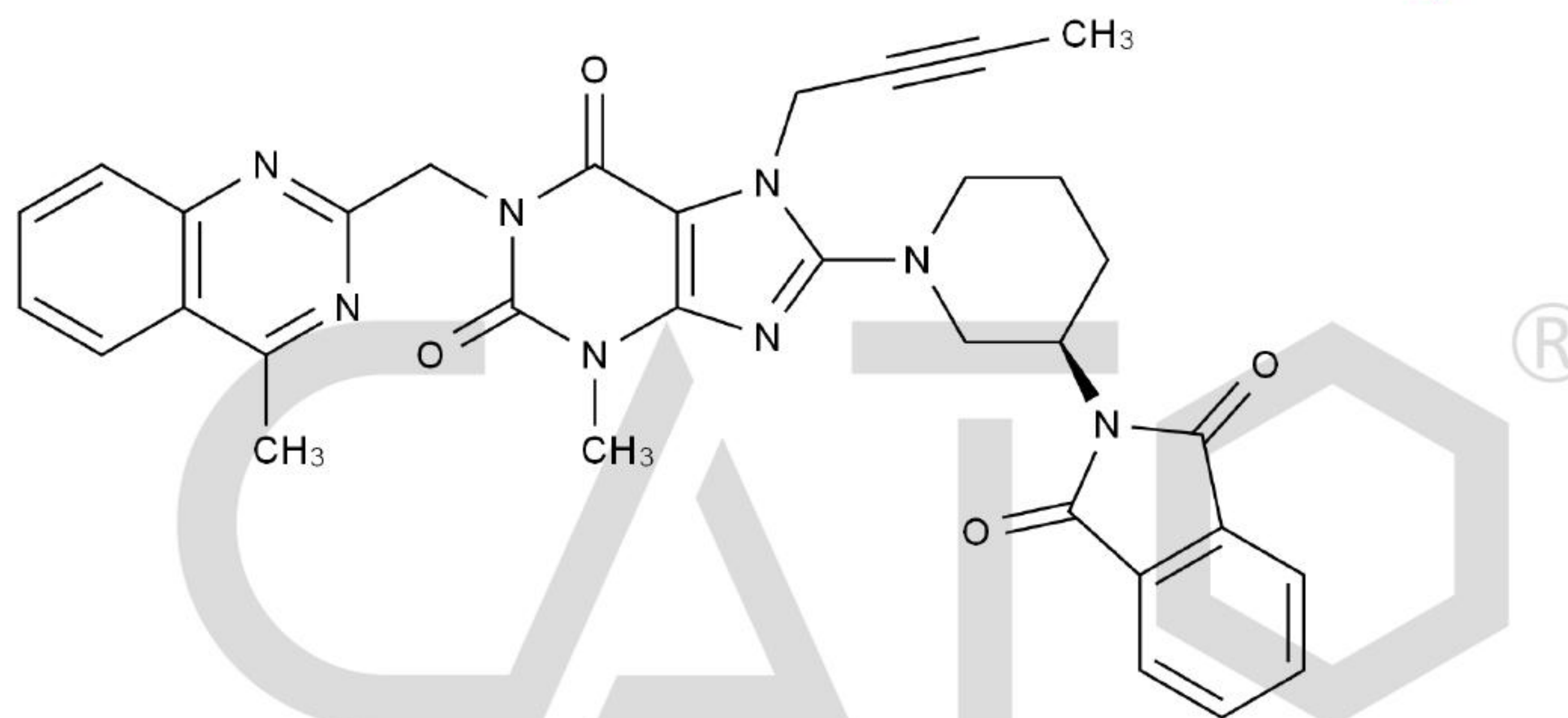
Reference Material & Standard

Product Name:	Linagliptin Impurity 51	Catalogue Number:	C4X-110151
Synonyms:	N/A	Lot Number:	0525-RH-0078
CAS Number:	886588-63-2	Expiry Date:	May 26, 2030
Molecular Formula:	C ₃₃ H ₃₀ N ₈ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	602.64	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	99.835%
Loss on Drying	TGA	1.3771%
Assay		98.5%

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:

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Reviewed by:

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Approved by General Manager:

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Date: May 27, 2026

Date: May 28, 2026

Date: May 28, 2026



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