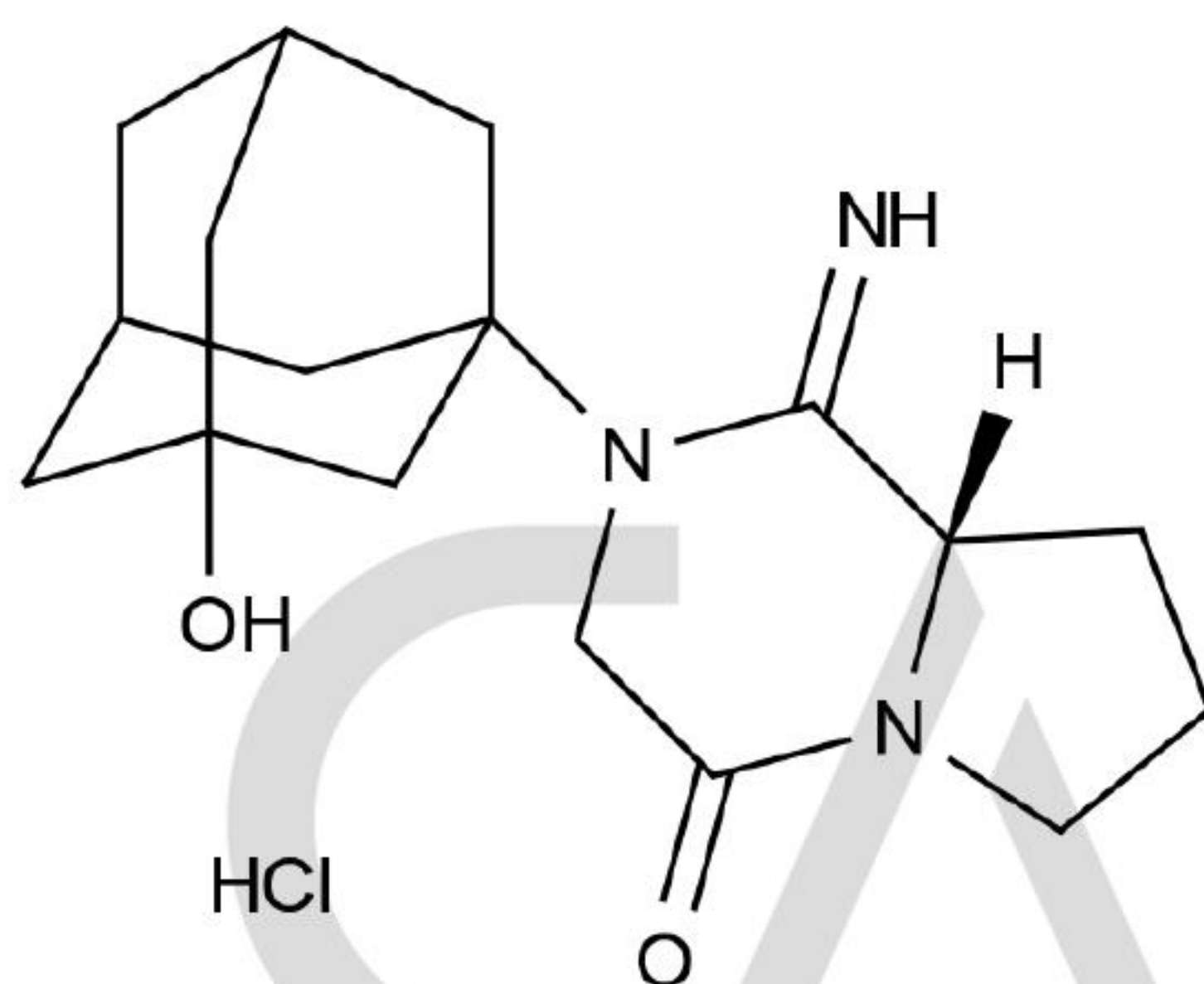


Certificate of Analysis

Reference Material & Standard

Product Name:	Vildagliptin Impurity 107 HCl	Catalogue Number:	C4X-1100107
Synonyms:	N/A	Lot Number:	1212-RG-0095
CAS Number:	1710765-32-4 (free base)	Expiry Date:	Jul 03, 2029
Molecular Formula:	C ₁₇ H ₂₅ N ₃ O ₂ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	303.40 36.46	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	96.896%
Water Content	Karl Fischer	0.42%
Residual Solvents	NMR	Not detected in NMR
Assay		96.5%

Comment:

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

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Hin Lam

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Dec 18, 2025

Date: Dec 18, 2025

Date: Dec 18, 2025



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