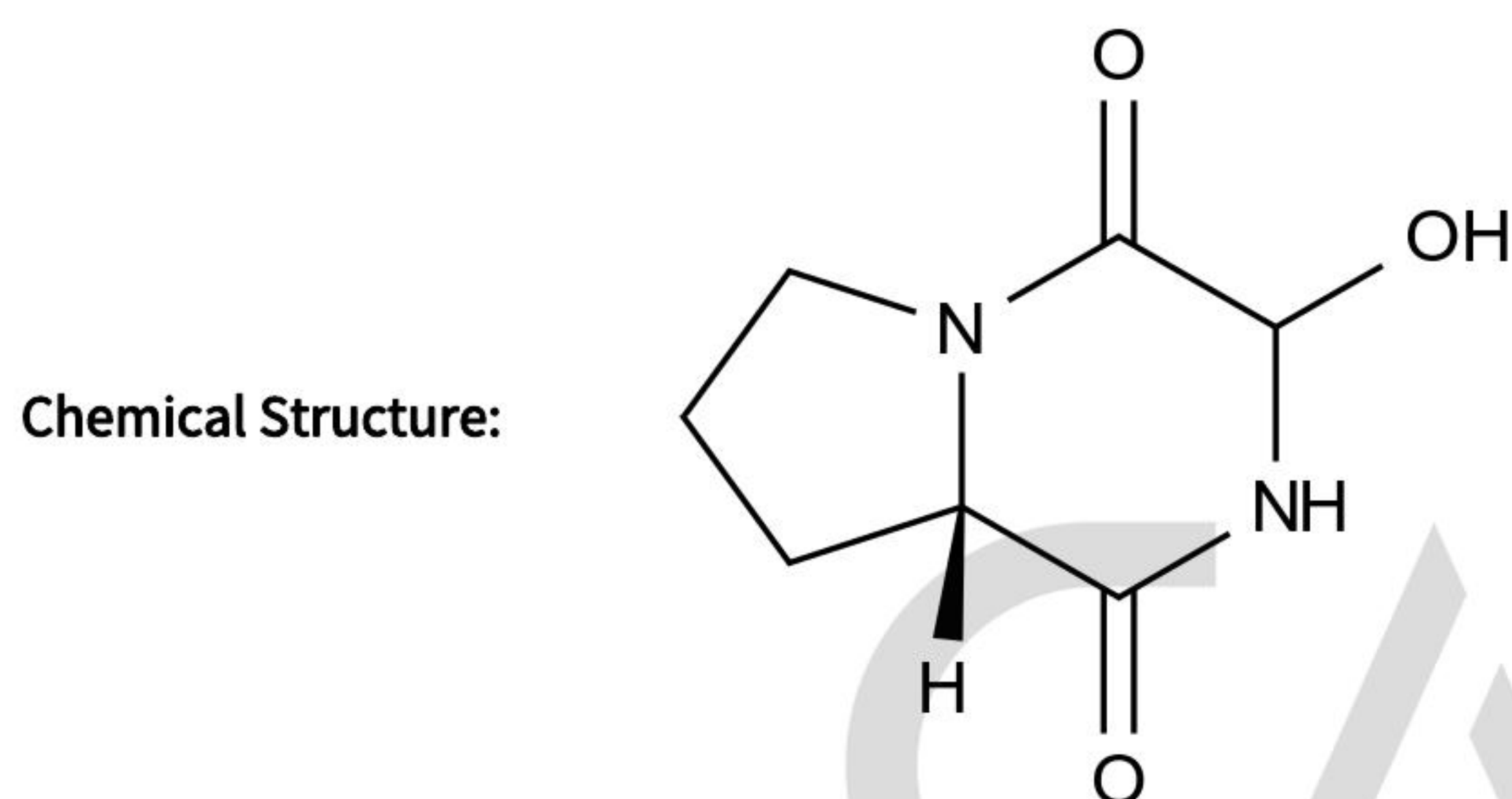


Certificate of Analysis

Reference Material & Standard

Product Name:	Vildagliptin Impurity 80	Catalogue Number:	C4X-110080
Synonyms:	N/A	Lot Number:	0407-RF-0015
CAS Number:	1846606-32-3	Expiry Date:	Sep 25, 2026
Molecular Formula:	C ₇ H ₁₀ N ₂ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	170.17		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	97.68%
Water Content	Karl Fischer	0.60%
Residual Solvents	NMR	0.2% methanol
Assay		96.9%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Water Content} - \text{Residual Solvents}) * \text{Purity HPLC (\%)} / 100\%$$
 Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Lisa

Aproved by General Manager:

David

Date: Apr 07, 2024

Date: Apr 07, 2024

Date: Apr 07, 2024

