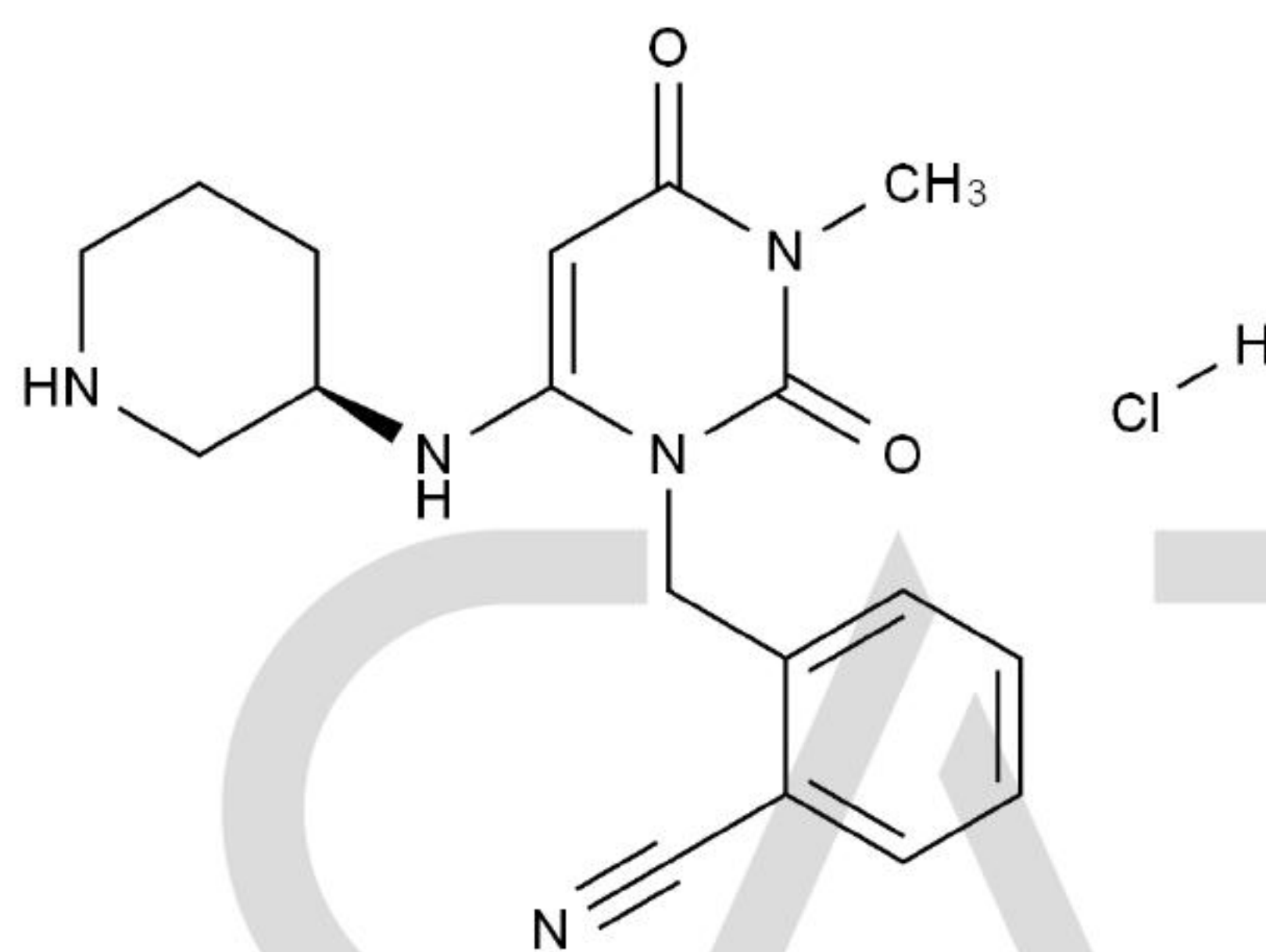


Certificate of Analysis

Reference Material & Standard

Product Name:	Alogliptin Impurity 5	Catalogue Number:	C4X-10995
Synonyms:	N/A	Lot Number:	1107-RF-0019
CAS Number:	2089611-85-6(free base)	Expiry Date:	Nov 07, 2027
Molecular Formula:	C ₁₈ H ₂₁ N ₅ O ₂ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	339.39 36.46	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	HPLC	99.983%
Water Content	Karl Fischer	0.42%
Residual Solvents	NMR	Not detected in NMR
Assay		99.6%

Comment:

The calculation of the 100% 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:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Nov 08, 2024

Date: Nov 08, 2024

Date: Nov 08, 2024

