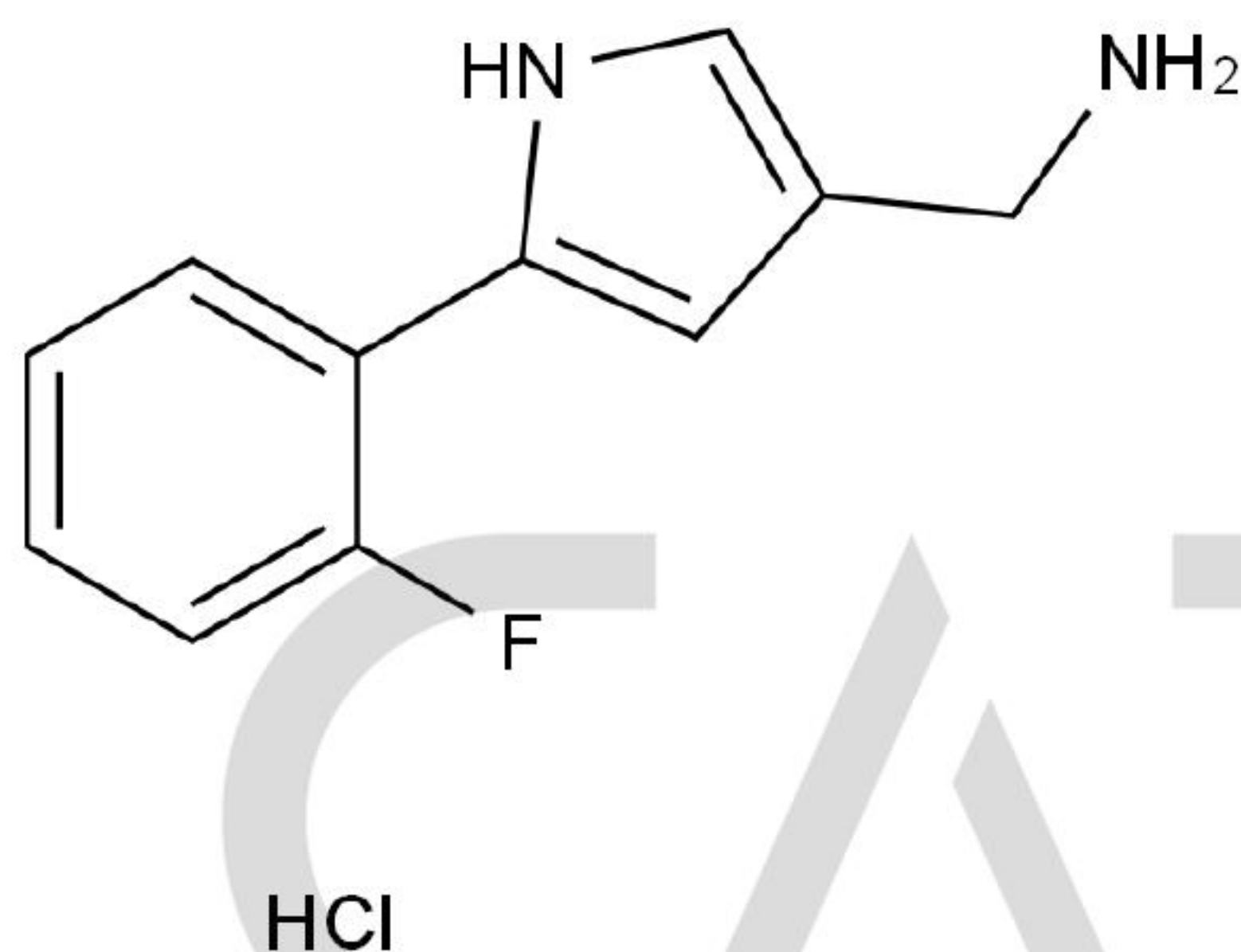


Certificate of Analysis

Reference Material & Standard

Product Name:	Vonoprazan Impurity 21 HCl	Catalogue Number:	C4X-102021
Synonyms:	N/A	Lot Number:	0123-RG-0070
CAS Number:	N/A	Expiry Date:	Oct 09, 2027
Molecular Formula:	C ₁₁ H ₁₁ FN ₂ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	190.22 36.46	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.921%
Water Content	Karl Fischer	0.41%
Residual Solvents	NMR	Not detected in NMR
Assay		99.5%

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:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jan 23, 2025

Date: Jan 24, 2025

Date: Jan 24, 2025

