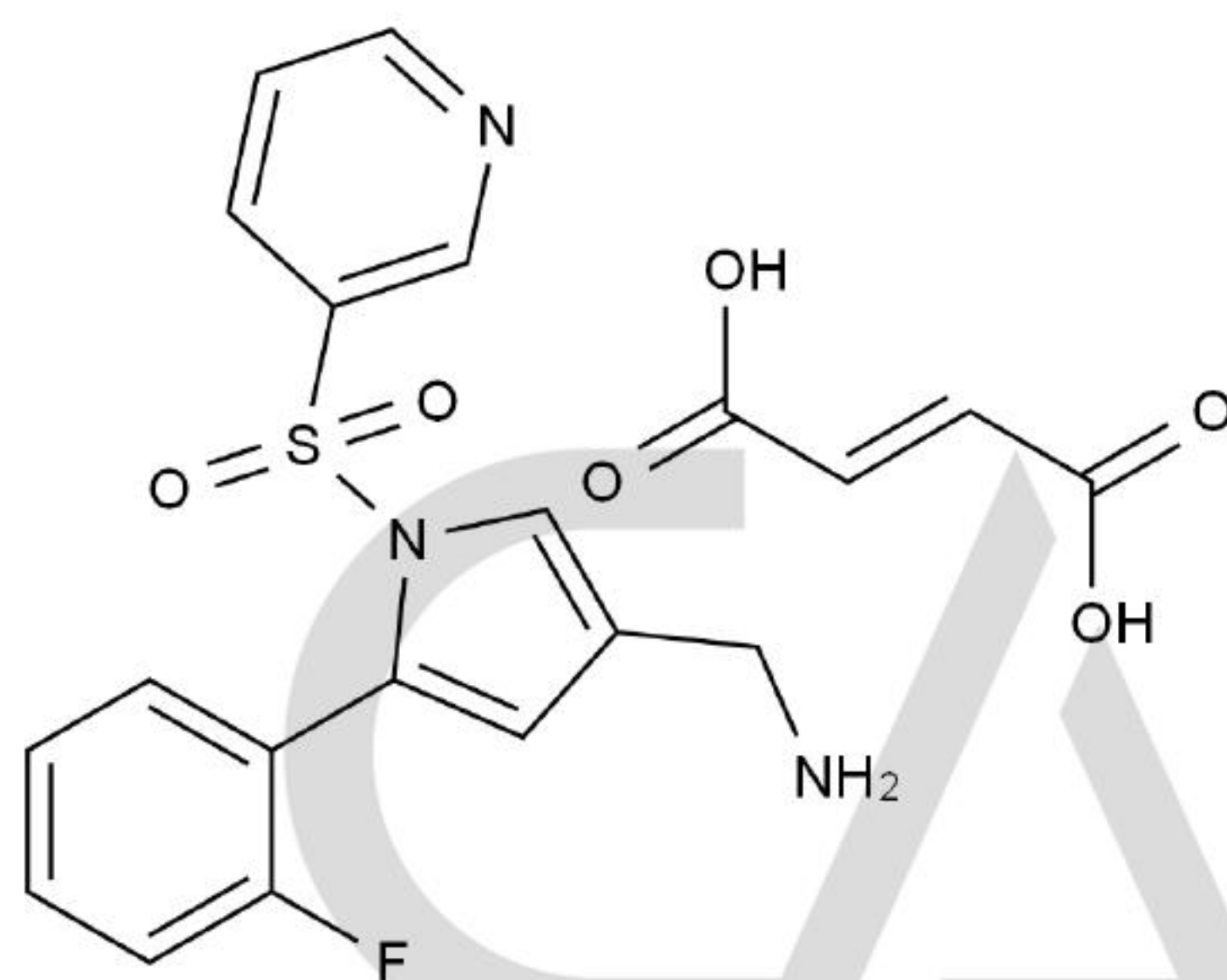


Certificate of Analysis

Reference Material & Standard

Product Name:	Vonoprazan Fumarate Impurity 27	Catalogue Number:	C4X-102027
Synonyms:	(5-(2-Fluorophenyl)-1-(pyridin-3-ylsulfonyl)-1H-pyrrol-3-yl)methanamine fumarate (1:1)	Lot Number:	0427-RH-0063
CAS Number:	N/A	Expiry Date:	May 12, 2030
Molecular Formula:	C ₁₆ H ₁₄ FN ₃ O ₂ S C ₄ H ₄ O ₄	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	331.36 116.07	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile, DMSO and Methanol	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	96.278%
Residue on Ignition	TGA	1.9398%
Loss on Drying	TGA	2.4727%
Assay	qNMR	91.1%
Assay	Mass Balance	92.0%

Comment:

- The retest date of this product is May 12, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: May 13, 2026

Date: May 13, 2026

Date: May 13, 2026



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