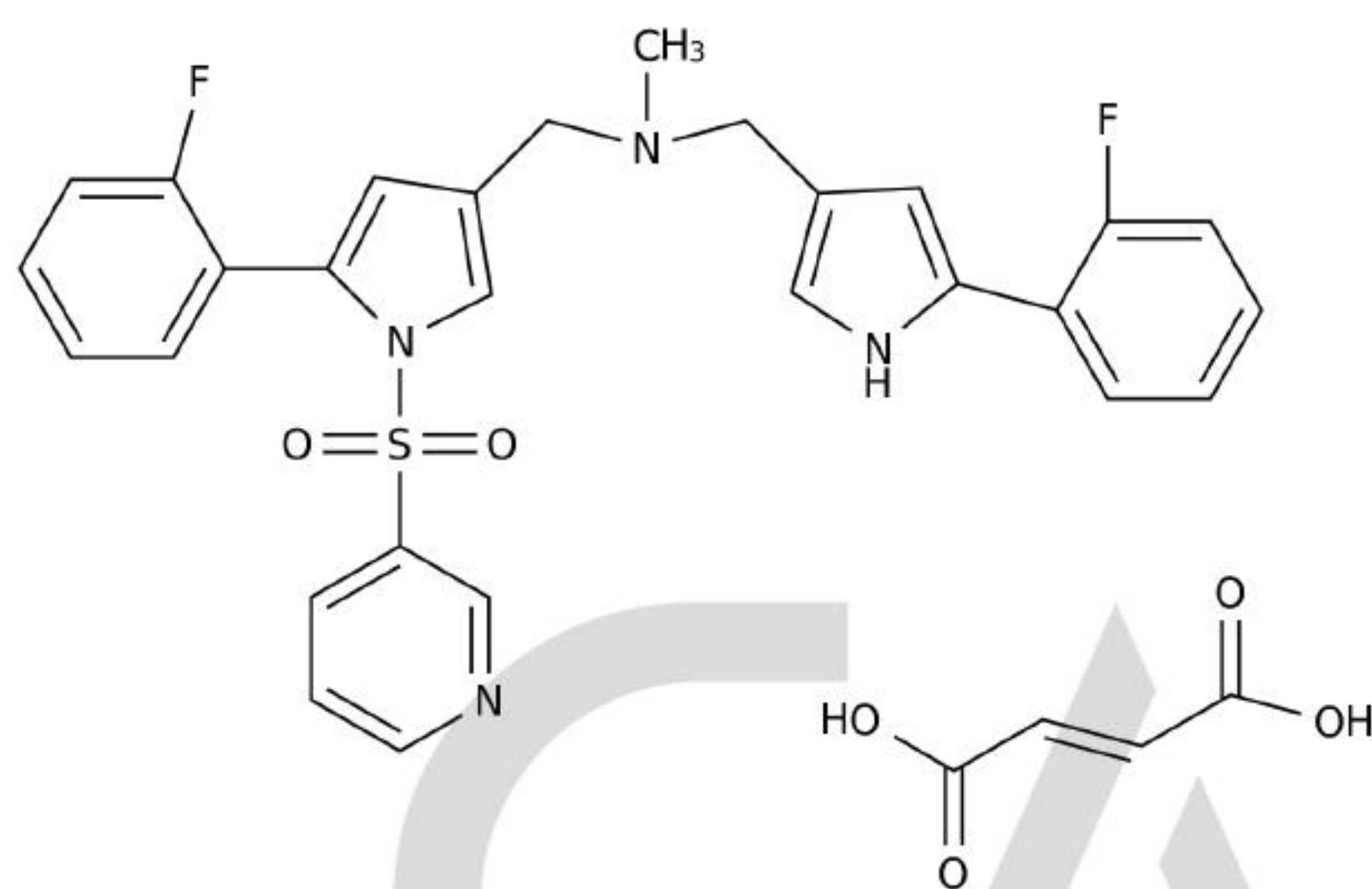


Certificate of Analysis

Reference Material & Standard

Product Name:	Vonoprazan Impurity 110	Catalogue Number:	C4X-1020110
Synonyms:	1-[5-(2-Fluorophenyl)-1-(3-pyridinylsulfonyl)-1H-pyrrol-3-yl]-N-[[5-(2-fluorophenyl)-1H-pyrrol-3-yl]methyl]-N-methylmethanamine fumarate	Lot Number:	0601-RH-0114
CAS Number:	N/A	Expiry Date:	Jun 08, 2030
Molecular Formula:	C ₂₈ H ₂₄ F ₂ N ₄ O ₂ S C ₄ H ₄ O ₄	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	518.58 116.07	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile, DMSO and Methanol	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Brown Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.341%
Water Content	Karl Fischer	1.2055%
Residual Solvents	qNMR	0.53% ethyl acetate and 2.36% acetonitrile
Residue on Ignition	TGA	0.3899%
Assay	qNMR	95.1%
Assay	Mass Balance	94.9%

Comment:

- The retest date of this product is Jun 08, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content} - \text{Residual Solvents} - \text{Residue on Ignition}) * \text{Purity HPLC (\%)} / 100\%$$
 Water Content, Residual Solvents and Residue on Ignition 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: Jun 09, 2026

Date: Jun 09, 2026

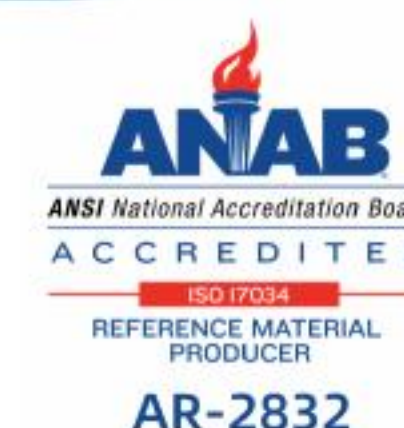
Date: Jun 09, 2026

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