

Certificate of Analysis

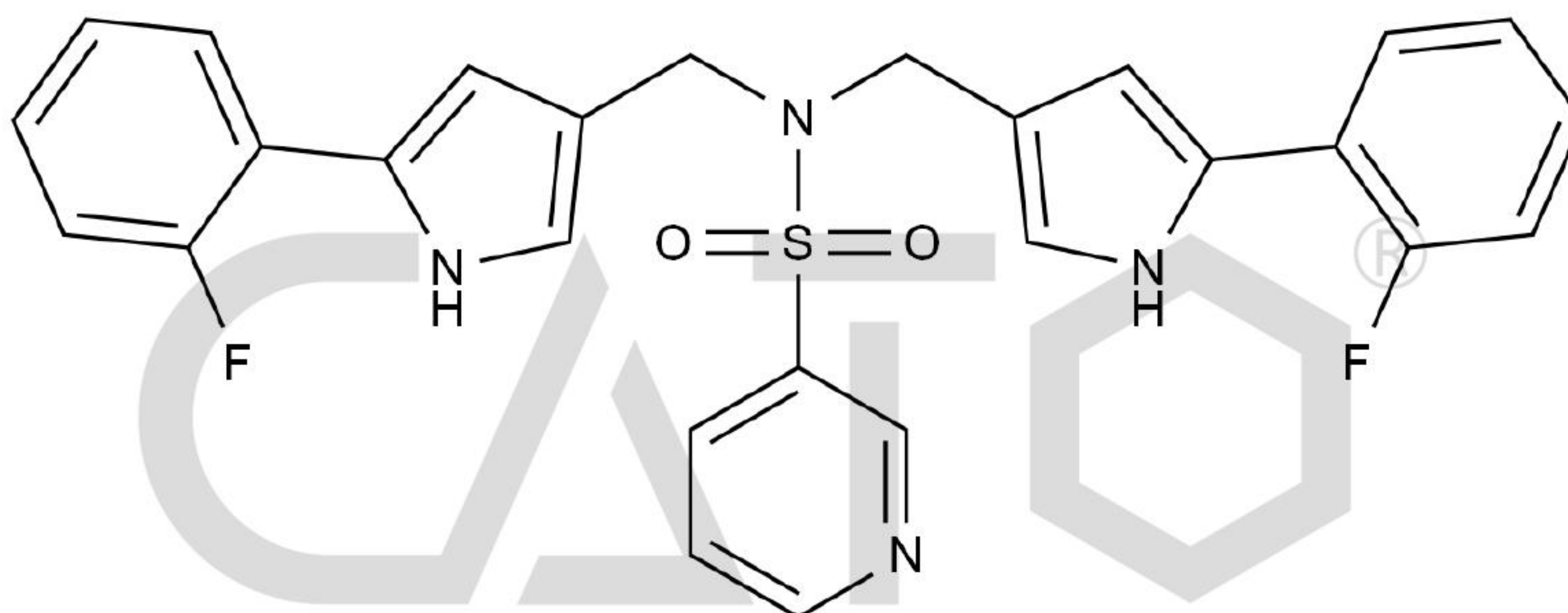
Reference Material & Standard

Product Name:	Vonoprazan Impurity 55	Catalogue Number:	C4X-102055
Synonyms:	N,N-Bis[[5-(2-fluorophenyl)-1H-pyrrol-3-yl]methyl]-3-pyridinesulfonamide	Lot Number:	1016-RG-0046
CAS Number:	2514957-29-8	Expiry Date:	Oct 29, 2029
Molecular Formula:	C ₂₇ H ₂₂ F ₂ N ₄ O ₂ S	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	504.55	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile and DMSO		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.559%
Residue on Ignition	TGA	1.1679%
Loss On Drying	TGA	0.1983%
Assay	qNMR	97.7%
Assay	Mass Balance	97.2%

Comment:

- The retest date of this product is Oct 29, 2028.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

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

Signature:

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Approved by General Manager:

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Date: Oct 30, 2025

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