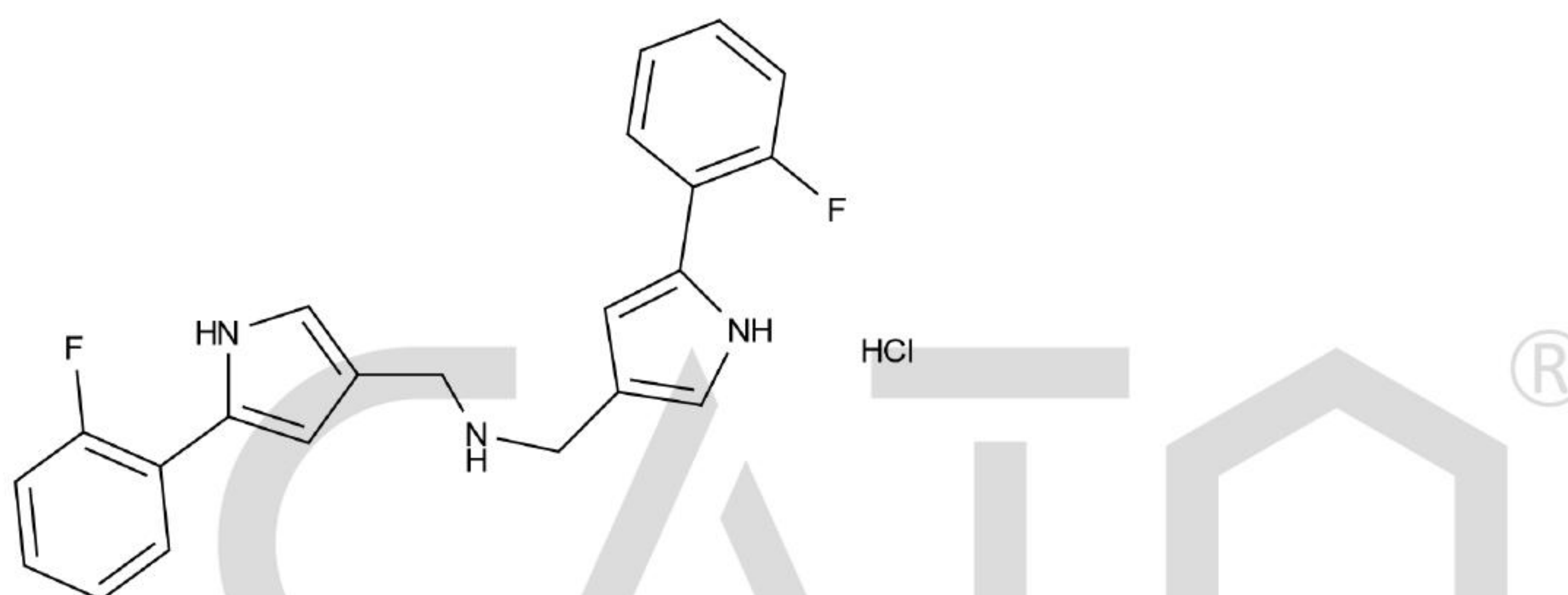


Certificate of Analysis

Reference Material & Standard

Product Name:	Vonoprazan Impurity 141 HCl	Catalogue Number:	C4X-1020141
Synonyms:	1-[5-(2-Fluorophenyl)-1H-pyrrol-3-yl]-N-[[5-(2-fluorophenyl)-1H-pyrrol-3-yl]methyl]methanamine hydrochloride	Lot Number:	0917-RH-0068
CAS Number:	3138175-33-1	Expiry Date:	Sep 28, 2030
Molecular Formula:	C ₂₂ H ₁₉ F ₂ N ₃ HCl	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	363.40 36.46	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Purple Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.427%
Residue on Ignition	TGA	0.3872%
Loss on Drying	TGA	0.7048%
Assay	qNMR	97.6%
Assay	Mass Balance	97.4%

Comment:

1. The retest date of this product is Sep 28, 2029.
2. 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: Sep 29, 2026

Date: Sep 29, 2026

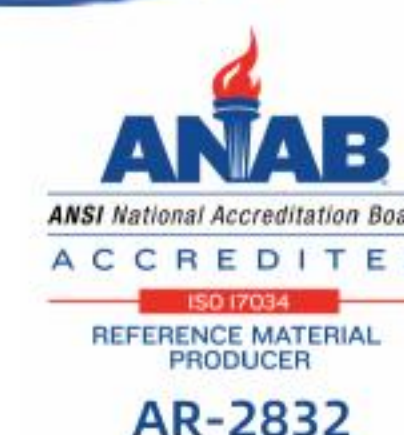
Date: Sep 29, 2026

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