

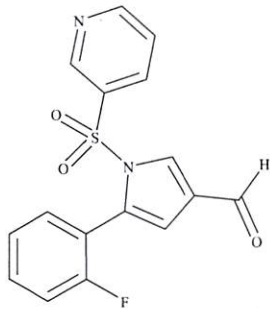
Certificate of Analysis

Certificate No.: 20250509502



Date: May 9, 2025

Retest date: May 2, 2028

Compound Name: Vonoprazan Impurity 14	
Synonyms:	5-(2-fluorophenyl)-1-(pyridin-3-ylsulfonyl)-1H-pyrrole-3-carbaldehyde
TLC Catalogue Number:	V-051015
CAS Number:	881677-11-8
Alternate CAS Number:	N/A
Molecular Weight:	330.33
Molecular Formula:	C ₁₆ H ₁₁ FN ₂ O ₃ S
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3859-038A4
Storage Conditions:	Store at 2-8 °C
Solubility:	DMF, DMSO, Acetonitrile



Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Elemental Analysis	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.9%
Impurity (HPLC)	N/A	
Residual Solvents (NMR)	0.1% isopropyl ether	
Assay (qNMR)	Not less than 90.0%	99.3%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		05/09/2025
Approved by:	Quality Assurance		05/09/2025

Attachments: Peak Attribution Table, HPLC, IR, MS and NMR spectra.