

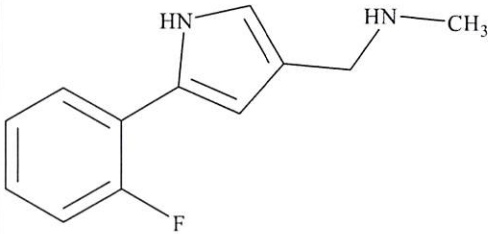
Certificate of Analysis

Certificate No.: 20250509501



Date: May 9, 2025

Retest date: May 5, 2028

Compound Name: Vonoprazan Impurity 23	
Synonyms:	1-(5-(2-fluorophenyl)-1 <i>H</i> -pyrrol-3-yl)- <i>N</i> -methylmethanamine
TLC Catalogue Number:	V-051025
CAS Number:	1610043-62-3
Alternate CAS Number:	N/A
Molecular Weight:	204.25
Molecular Formula:	C ₁₂ H ₁₃ N ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3856-054A6
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, DMF, Ethanol



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
Purity (HPLC)	Not less than 95.0%	99.9%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.3%
Residual Solvents (NMR)	0.2% diethyl ether	
Assay (%)	Not less than 90.0%	99.4%
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.