

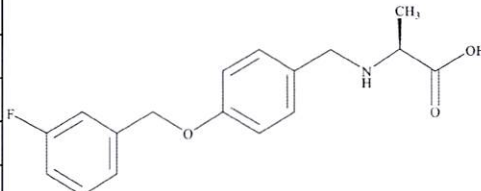
Certificate of Analysis

Certificate No.: 20240704029

Date: July 4, 2024

Retest date: July 4, 2027

Compound Name: Safinamide Impurity 5	
Synonyms:	(4-((3-fluorobenzyl)oxy)benzyl)-L-alanine
TLC Catalogue Number:	S-073007
CAS Number:	1160513-60-9
Molecular Weight:	303.33
Molecular Formula:	C ₁₇ H ₁₈ FNO ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	2068-025A1
Storage Conditions:	Store at 2-8 °C
Solubility:	DMSO (heated), Acidic solution, Methanol



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%	99.1%
Impurity (HPLC)	RT 17.95, 0.82%	
Water Content (KF)	N/A	0.3%
Optical Rotation	N/A	$[\alpha]_D^{25.0}(c=0.32, 1N\ HCl\ (aq))$: -1.3°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	98.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control	<i>Kelin Zhu</i>	07/05/2024
Approved by:	Quality Assurance	<i>F. J.</i>	07/05/2024

Attachments: HPLC, IR, MS and NMR spectra.