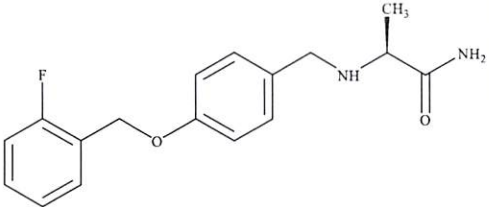


Certificate of Analysis



Certificate No.: 20250528002

Date: May 28, 2025

Retest date: May 22, 2028

Compound Name:	Safinamide Impurity 16	
Synonyms:	(S)-2-((4-((2-fluorobenzyl)oxy)benzyl)amino)propanamide	
TLC Catalogue Number:	S-073018	
CAS Number:	133865-88-0	
Alternate CAS Number:	202825-45-4 (Methanesulfonate salt)	
Molecular Weight:	302.35	
Molecular Formula:	C ₁₇ H ₁₉ FN ₂ O ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	6822-034A2	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO, Acetonitrile, 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%	99.3%
Impurity (HPLC)	RT 7.94, 0.14%; RT 8.27, 0.38%; RT 11.72, 0.19%	
Purity (Chiral HPLC)	Not less than 98.0%	99.0%
Water Content (KF)	N/A	0.2%
Optical Rotation	N/A	$[\alpha]_D^{25.0}(c=0.67, CH_3OH): -9.6^\circ$
Residual Solvents (NMR)	0.1% methanol and 0.1% isopropyl ether	
Assay (%)	Not less than 90.0%	97.9%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		05/28/2025
Approved by:	Quality Assurance		05/28/2025

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