



Certificate of Analysis

Certificate No.: 20231109015

Date: November 9, 2023

Retest date: November 7, 2026

Compound Name:	Apremilast Impurity 28	
Synonyms:	1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethan-1-amine	
TLC Catalogue Number:	A-182010	
CAS Number:	253168-94-4	
Molecular Weight:	273.35	
Molecular Formula:	C ₁₂ H ₁₉ NO ₄ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	3931-051A2	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, 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
Purity (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		11/10/2023
Approved by:	Quality Assurance		11/10/2023

Attachments: HPLC, IR, MS and NMR spectra.