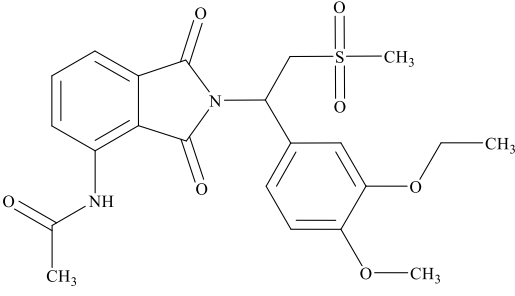


Certificate of Analysis

Certificate No.: 20200817002

Date: August 17, 2020

Retest date: July 27, 2023

Compound Name:	<i>rac</i>-Apremilast	
Synonyms:	<i>N</i> -(2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-1,3-dioxisoindolin-4-yl)acetamide	
TLC Catalogue Number:	A-182038	
CAS Number:	253168-86-4	
Molecular Weight:	460.50	
Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₇ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	3931-049A3	
Storage Conditions:	Store at 2-8 °C	
Solubility:	DMSO, THF, solution of Methanol and Acetonitrile	

Test Description	Specifications	Results
Visual Description	Pale yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Elemental Analysis	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.5%
Impurity (HPLC)	RT 2.04, 0.31%	
Water Content (KF)	N/A	0.3%
Residual Solvents (NMR)	0.2% methanol and 0.1% tetrahydrofuran	
Assay (%)	Not less than 90.0%	98.9%
Recommendation:	Released.	

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

Attachments: HPLC, IR, MS and NMR spectra.