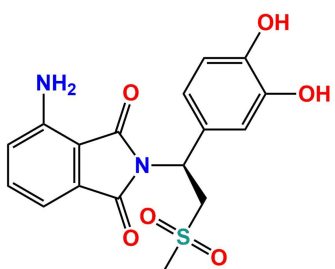


CERTIFICATE OF ANALYSIS

Date: 04-12-2024

Product Name	Apremilast Impurity 11		
Chemical Name	(S)-4-Amino-2-(1-(3,4-dihydroxyphenyl)-2-(methylsulfonyl)ethyl)isoindoline-1,3-dione		
Structure	 <p>The chemical structure shows a central isoindoline-1,3-dione ring system. At the 4-position of the isoindoline ring, there is an amino group (NH₂) in blue. At the 2-position, there is a chiral center (S) bonded to a 3,4-dihydroxyphenyl group (with OH groups in red) and a 2-(methylsulfonyl)ethyl group (with a methyl group in black and a sulfonyl group in red).</p>		
Inv. Status	-	CAS No.	1384439-80-8
Analysis Date	-	Retest Date	-
Mol. Formula	C ₁₇ H ₁₆ N ₂ O ₆ S	Molecular Wt.	376.4
Long term Storage Condition	Store at 2-8 °C in well closed container		
Handling and Transit Condition	25-30 °C in well closed container		

Test	Result
Appearance	-
Solubility	-
¹ H-NMR	Conforms to structure
MASS	Conforms to structure
Chromatographic Purity	>90%
Note: This material should be used for research purpose and not for human or animal consumption. Any patent applicable for this product in any country is not applicable for this analytical standard/research chemical.	

	Prepared By	Checked By	Approved By
Signature			
Date			

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