



Certificate of Analysis

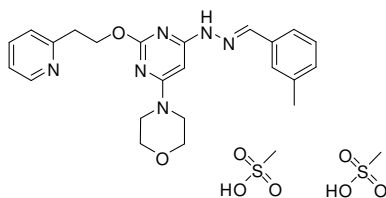
Axon Catalogue ID: 2500 **Batch Number:** 2

Product Name: Apilimod dimesylate

Alternative Name(s): STA 5326 dimesylate

IUPAC Name: 4-(6-(2-(3-Methylbenzylidene)hydrazinyl)-2-(2-(pyridin-2-yl)ethoxy)pyrimidin-4-yl)morpholine dimethanesulfonate

Structure:



Amount:

CAS number(s): 541550-19-0 (parent), 870087-36-8 (mesylate salt (1:2))

Molecular Formula: C₂₃H₂₆N₆O₂.2CH₄O₃S **Molecular Weight:** 610.70

Batch Molecular Formula: C₂₃H₂₆N₆O₂.2CH₄O₃S.1.5H₂O **Batch Molecular Weight:** 637.73

Appearance: White solid **Observed mp:** 96 - 98 °C

TLC (R_f): 0.2 DCM/MeOH (20:1)

Chemical Purity: 97.1%

Optical Purity (ee): N.A.

¹H-NMR (300 MHz): Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 47.08, H 5.85, N 13.18; Found: C 47.25, H 6.21, N 13.24

Storage Conditions: Store at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	62.0	97.2	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	63.8	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 20-3-2023

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only