



## Certificate of Analysis

<b>Axon Catalogue ID:</b>	2500	<b>Batch Number:</b>	1
<b>Product Name:</b>	Apilimod mesylate		
<b>Alternative Name(s):</b>	STA 5326 mesylate		
<b>IUPAC Name:</b>	(E)-4-(6-(2-(3-Methylbenzylidene)hydrazinyl)-2-(pyridin-2-yl)ethoxy)pyrimidin-4-yl)morpholine dimethanesulfonate		
<b>Structure:</b>			<b>Amount:</b>
<b>CAS number(s):</b>	541550-19-0 (parent), 870087-36-8 (dimesylate)		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>26</sub> N <sub>6</sub> O <sub>2</sub> .2CH <sub>4</sub> SO <sub>3</sub>	<b>Molecular Weight:</b>	610.70
<b>Batch Molecular Formula:</b>	C <sub>23</sub> H <sub>26</sub> N <sub>6</sub> O <sub>2</sub> .2CH <sub>4</sub> SO <sub>3</sub> .3.5H <sub>2</sub> O	<b>Batch Molecular Weight:</b>	673.76
<b>Appearance:</b>	Pale-yellow powder	<b>Observed mp:</b>	85 - 86 °C
<b>TLC (R<sub>f</sub>):</b>	0.76 DCM/MeOH/NH <sub>3</sub> (9:1:0.01)		
<b>Chemical Purity:</b>	98.3%		
<b>Optical Purity (ee):</b>	N.A.		
<b><sup>1</sup>H-NMR (300 MHz):</b>	Analytical data confirm chemical structure		
<b>Mass Spec:</b>	Analytical data confirm chemical structure		
<b>Microanalysis:</b>	Calculated: C 44.57, H 6.13, N 12.47; Found: C 44.69, H 5.77, N 12.43		
<b>Storage Conditions:</b>	Store at +4 °C		
<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>
	Water	47.5	70.5
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO	26.7	39.6
	EtOH		Not Tested
<b>Remarks:</b>	The material is suspected to be hygroscopic.		
<b>QC Date:</b>	03-11-2015		

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**