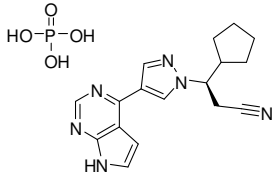




Certificate of Analysis

Axon Catalogue ID:	1598	Batch Number:	4																								
Product Name:	Ruxolitinib																										
Alternative Name(s):	INCB 018424 phosphate																										
IUPAC Name:	(R)-3-(4-(7H-Pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-cyclopentylpropanenitrile phosphate																										
Structure:		Amount:																									
CAS number(s):	941678-49-5 (parent), 1092939-17-7 (H3PO4 (1:1))																										
Molecular Formula:	C17H18N6.1.33H3O4P	Molecular Weight:	404.36																								
Batch Molecular Formula:	C17H18N6.1.33H3O4P	Batch Molecular Weight:	437.02																								
Appearance:	White solid	Observed mp:	179.2 - 181.7 °C																								
TLC (R_f):	0.8	DCM/MeOH (9:1)																									
Chemical Purity:	99.7%																										
Optical Purity (ee):	98.7%																										
¹H-NMR (300 MHz):	Analytical data confirm chemical structure																										
Mass Spec:	Analytical data confirm chemical structure																										
Microanalysis:	Calculated: C 46.72, H 5.07, N 19.23; Found: C 46.90, H 4.84, N 19.35																										
Storage Conditions:	Store at -20 °C																										
Solubility Data:	<table><thead><tr><th>Solvent</th><th>Solubility (mg/ml)</th><th>Solubility (mM)</th><th>Remarks</th></tr></thead><tbody><tr><td>Water</td><td>23.0</td><td>52.6</td><td></td></tr><tr><td>0.1N NaOH (aq)</td><td></td><td></td><td>Not Tested</td></tr><tr><td>0.1N HCl (aq)</td><td></td><td></td><td>Not Tested</td></tr><tr><td>DMSO</td><td>43.7</td><td>>100 mM</td><td></td></tr><tr><td>EtOH</td><td></td><td></td><td>Not Tested</td></tr></tbody></table>	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks	Water	23.0	52.6		0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)			Not Tested	DMSO	43.7	>100 mM		EtOH			Not Tested		
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Remarks:																											
QC Date:	16-1-2020																										

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