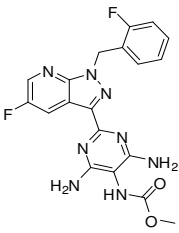




Certificate of Analysis

Axon Catalogue ID:	3558	Batch Number:	1																								
Product Name:	Vericiguat																										
Alternative Name(s):	BAY 1021189																										
IUPAC Name:	Methyl 4,6-diamino-2-(5-fluoro-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl)pyrimidin-5-ylcarbamate																										
Structure:		Amount:																									
CAS number(s):	1350653-20-1																										
Molecular Formula:	C ₁₉ H ₁₆ F ₂ N ₈ O ₂	Molecular Weight:	426.38																								
Batch Molecular Formula:	C ₁₉ H ₁₆ F ₂ N ₈ O ₂ .0.25H ₂ O	Batch Molecular Weight:	430.88																								
Appearance:	Light-brown solid	Observed mp:	>242 °C (decomp)																								
TLC (R_f):	0.46	DCM/MeOH (9:1)																									
Chemical Purity:	99.5%																										
¹H-NMR:	Analytical data confirm chemical structure																										
Mass Spec:	Analytical data confirm chemical structure																										
Microanalysis:	Calculated: C 52.96, H 3.86, N 26.01; Found: C 52.95, H 3.88, N 26.02																										
Storage Conditions:	Store at +4 °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>0.0</td><td>0.0</td><td>Insoluble</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>0.0</td><td>0.0</td><td>Insoluble</td></tr><tr><td>DMSO</td><td>15.4</td><td>35.8</td><td></td></tr><tr><td>EtOH</td><td>0.0</td><td>0.0</td><td>Insoluble</td></tr></tbody></table>	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks	Water	0.0	0.0	Insoluble	0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)	0.0	0.0	Insoluble	DMSO	15.4	35.8		EtOH	0.0	0.0	Insoluble		
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Remarks:																											
QC Date:	22-12-2021																										

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