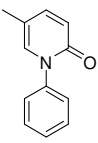




Certificate of Analysis

Axon Catalogue ID:	2647	Batch Number:	2																								
Product Name:	Pirfenidone																										
Alternative Name(s):	AMR 69																										
IUPAC Name:	5-Methyl-1-phenylpyridin-2(1H)-one																										
Structure:		Amount:																									
CAS number(s):	53179-13-8	Molecular Weight:	185.22																								
Molecular Formula:	C ₁₂ H ₁₁ NO	Batch Molecular Weight:	185.22																								
Batch Molecular Formula:	C ₁₂ H ₁₁ NO	Observed mp:	108.1 - 110.0 °C																								
Appearance:	Off-white solid																										
TLC (R_f):	0.78	DCM/MeOH (9:1)																									
Chemical Purity:	99.9%																										
¹H-NMR:	Analytical data confirm chemical structure																										
Mass Spec:	Analytical data confirm chemical structure																										
Microanalysis:	Calculated: C 77.81, H 5.99, N 7.56; Found: C 77.76, H 5.95, N 7.44																										
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>6.0</td><td>32.4</td><td>* Warming (40°C) and sonication</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>18.5</td><td>>100 mM</td><td></td></tr><tr><td>EtOH</td><td>18.5</td><td>>100 mM</td><td>* Sonication</td></tr></tbody></table>	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks	Water	6.0	32.4	* Warming (40°C) and sonication	0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)			Not Tested	DMSO	18.5	>100 mM		EtOH	18.5	>100 mM	* Sonication		
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Remarks:	* Warming (40°C) and/or sonication enhanced solubility.																										
QC Date:	16-8-2022																										

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