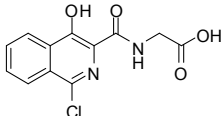




Certificate of Analysis

Axon Catalogue ID:	2570	Batch Number:	1																								
Product Name:	FG 2216																										
Alternative Name(s):	YM 311																										
IUPAC Name:	2-(1-Chloro-4-hydroxyisoquinoline-3-carboxamido)acetic acid																										
Structure:		Amount:																									
CAS number(s):	223387-75-5																										
Molecular Formula:	C12H9ClN2O4	Molecular Weight:	280.66																								
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Appearance:	Off-white solid	Observed mp:	219.5 - 221.8 °C																								
TLC (R_f):	0.58	DCM/MeOH/AcOH (20:1:0.01)																									
Chemical Purity:	99.3%																										
Optical Purity (ee):	N.A.																										
¹H-NMR (300 MHz):	Analytical data confirm chemical structure																										
Mass Spec:	Analytical data confirm chemical structure																										
Microanalysis:	Calculated: C 51.35, H 3.23, N 9.98; Found: C 51.06, H 3.23, N 9.80																										
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></td><td></td><td>Not Tested</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>7.0</td><td>24.9</td><td></td></tr><tr><td>DMSO</td><td>28.1</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			Not Tested	0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)	7.0	24.9		DMSO	28.1	>100 mM		EtOH			Not Tested		
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Remarks:																											
QC Date:	09-05-2016																										

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