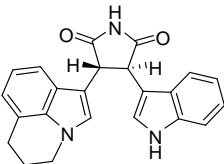




Certificate of Analysis

Axon Catalogue ID:	1838	Batch Number:	1																								
Product Name:	ARQ 197																										
Alternative Name(s):	Tivantinib																										
IUPAC Name:	(3R,4R)-3-(2,3-Dihydro-1H-pyrrolo[3,2,1-ij]quinolin-6-yl)-4-(1H-indol-3-yl)pyrrolidine-2,5-dione																										
Structure:		Amount:																									
CAS number:	905854-02-6																										
Batch Molecular Formula:	C23H19N3O2	Batch MW:	369.42																								
Appearance:	White Solid	Observed m.p.:	>210 (Dec.)°C																								
TLC (R_f):	0.75	9:1 DCM/Methanol																									
Chemical Purity:	98.7%	Wavelength for purity check:	280 nm																								
Optical Purity (ee):																											
¹H-NMR (300 MHz):	Analytical data confirm chemical structure																										
Mass Spec:	Analytical data confirm chemical structure																										
Microanalysis:	Not available																										
Storage Conditions:	Desiccate 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>Insoluble</td></tr><tr><td>1eq. NaOH</td><td></td><td></td><td>Not tested</td></tr><tr><td>1eq. HCl</td><td></td><td></td><td>Not tested</td></tr><tr><td>DMSO</td><td>28.00</td><td>75.79</td><td>Soluble</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			Insoluble	1eq. NaOH			Not tested	1eq. HCl			Not tested	DMSO	28.00	75.79	Soluble	EtOH			Not tested		
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Remarks:																											
Quality controller:	M. Brandsma, MSc.	Date:	2-4-2012																								

The purity of Axon products 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 Axon Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only