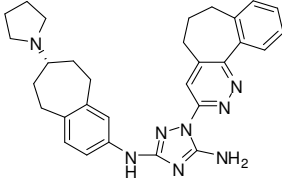




Certificate of Analysis

Axon Catalogue ID:	1946	Batch Number: 3																								
Product Name:	R 428 dihydrochloride																									
Alternative Name(s):	N.A.																									
IUPAC Name:	1-(6,7-dihydro-5H-benzo[6,7]cyclohepta[1,2-c]pyridazin-3-yl)-N3-[(7S)-6,7,8,9-tetrahydro-7-(1-pyrrolidinyl)-5H-benzocyclohepten-2-yl]-1H-1,2,4-Triazole-3,5-diamine dihydrochloride																									
Structure:	 2HCl	Amount:																								
CAS number:	1037624-75-1 (parent)	MW: 579.57																								
Batch Molecular Formula:	C30H34N8.2HCl.1H2O	Batch MW: 597.58																								
Appearance:	Off-white solid	Observed mp: 205 °C (decomp)																								
TLC (R_f):	0.7 DCM/MeOH/NH ₃ (4:1:0.2)																									
Chemical Purity:	99.3%																									
Optical Purity (ee):	100%																									
¹H-NMR (300 MHz):	Analytical data confirm chemical structure																									
Mass Spec:	Analytical data confirm chemical structure																									
Microanalysis:	C, H, and N fit within 0,4% of theoretical calculation																									
Storage Conditions:	Store at +4°C																									
Solubility Data:	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Solvent</th> <th style="text-align: center;">Solubility (mg/ml)</th> <th style="text-align: center;">Solubility (mM)</th> <th style="text-align: left;">Remarks</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td style="text-align: center;">58.0</td> <td style="text-align: center;">>100 mM</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 style="text-align: center;">58.0</td> <td style="text-align: center;">>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	58.0	>100 mM		0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)			Not Tested	DMSO	58.0	>100 mM		EtOH			Not Tested	
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Remarks:																										
QC Date:	19-06-2013																									

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