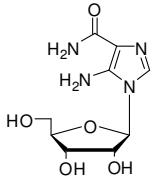




Certificate of Analysis

Axon Catalogue ID:	2389	Batch Number:	1																								
Product Name:	AICAR																										
Alternative Name(s):	Acadesine; AICA-riboside; Arasine; NSC 105823																										
IUPAC Name:	5-Amino-1-((2R,3S,4R,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-1H-imidazole-4-carboxamide																										
Structure:		Amount:																									
CAS number:	2627-69-2																										
Batch Molecular Formula:	C9H14N4O5	Batch MW:	258.23																								
Appearance:	Grey solid	Observed mp:	215 - 217 °C (decomp.)																								
TLC (R_f):	0.55	n-Butanol/AcOH/H ₂ O																									
Chemical Purity:	99.9%																										
Optical Purity (ee):	N.A.																										
¹H-NMR (300 MHz):	Analytical data confirm chemical structure																										
Mass Spec:	Analytical data confirm chemical structure																										
Microanalysis:	Calculated: C 41.86 , H 5.46 , N 21.69 Found: C 41.47 , H 5.44 , N 21.62																										
Storage Conditions:	Store at -20 °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>15.4</td><td>59.6</td><td>0</td></tr><tr><td>0.1N NaOH (aq)</td><td>23.0</td><td>89.1</td><td>0</td></tr><tr><td>0.1N HCl (aq)</td><td>25.8</td><td>>100 mM</td><td>0</td></tr><tr><td>DMSO</td><td>25.8</td><td>>100 mM</td><td>0</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	15.4	59.6	0	0.1N NaOH (aq)	23.0	89.1	0	0.1N HCl (aq)	25.8	>100 mM	0	DMSO	25.8	>100 mM	0	EtOH	0.0	0.0	Insoluble		
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Remarks:																											
QC Date:	18-03-2015																										

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