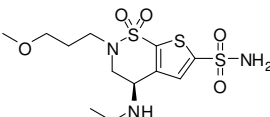




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	3988	<b>Batch Number:</b>	1
<b>Product Name:</b>	Brinzolamide		
<b>Alternative Name(s):</b>	AL4862		
<b>IUPAC Name:</b>	(4R)-4-(Ethylamino)-2-(3-methoxypropyl)-1,1-dioxo-3,4-dihydrothieno[3,2-e]thiazine-6-sulfonamide		
<b>Structure:</b>			<b>Amount:</b>
<b>CAS number(s):</b>	138890-62-7		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>21</sub> N <sub>3</sub> O <sub>5</sub> S <sub>3</sub>	<b>Molecular Weight:</b>	383.51
<b>Batch Molecular Formula:</b>	C <sub>12</sub> H <sub>21</sub> N <sub>3</sub> O <sub>5</sub> S <sub>3</sub>	<b>Batch Molecular Weight:</b>	383.51
<b>Appearance:</b>	White solid	<b>Observed mp:</b>	131.7 - 133.3 °C
<b>TLC (R<sub>f</sub>):</b>	0.7	DCM/MeOH (9:1)	
<b>Chemical Purity:</b>	100%		
<b>Optical Purity (ee):</b>	Optically pure		
<b>Optical Rotation (Det.):</b>	[α] <sub>D</sub> = +18.2° with c = 1 in MeOH		
<b><sup>1</sup>H-NMR:</b>	Analytical data confirm chemical structure		
<b>Mass Spec:</b>	Analytical data confirm chemical structure		
<b>Microanalysis:</b>	Calculated: C 37.58, H 5.52, N 10.96; Found: C 37.56, H 5.48, N 10.91		
<b>Storage Conditions:</b>	Store at +4 °C		
<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>
	Water	0.0	0.0
	0.1N NaOH (aq)		
	0.1N HCl (aq)	20.0	52.2
	DMSO	38.4	>100 mM
	EtOH	16.7	43.5
			* Warming (40°C)
<b>Remarks:</b>	* Warming (40°C) enhanced solubility.		
<b>QC Date:</b>	25-7-2023		

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**