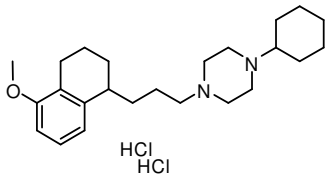




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	1272	<b>Batch Number:</b>	2A																								
<b>Product Name:</b>	PB 28 dihydrochloride																										
<b>Alternative Name(s):</b>	N.A.																										
<b>IUPAC Name:</b>	1-Cyclohexyl-4-[3-(5-methoxy-1,2,3,4-tetrahydro-naphthalen-1-yl)-propyl]-piperazine dihydrochloride																										
<b>Structure:</b>		<b>Amount:</b>																									
<b>CAS number(s):</b>	172906-90-0 (parent), 172907-03-8 (HCl (1:2))																										
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>38</sub> N <sub>2</sub> O.2HCl	<b>Molecular Weight:</b>	443.49																								
<b>Batch Molecular Formula:</b>	C <sub>24</sub> H <sub>38</sub> N <sub>2</sub> O.2HCl	<b>Batch Molecular Weight:</b>	443.49																								
<b>Appearance:</b>	White solid	<b>Observed mp:</b>	280 °C (decomp)																								
<b>TLC (R<sub>f</sub>):</b>	0.45	DCM/MeOH (9:1)																									
<b>Chemical Purity:</b>	99.1%																										
<b>Optical Purity (ee):</b>	N.A.																										
<b><sup>1</sup>H-NMR (300 MHz):</b>	Analytical data confirm chemical structure																										
<b>Mass Spec:</b>	Analytical data confirm chemical structure																										
<b>Microanalysis:</b>	Calculated: C 65.00, H 9.09, N 6.32; Found: C ND, H ND, N ND																										
<b>Storage Conditions:</b>	Store at +4 °C																										
<b>Solubility Data:</b>	<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>9.0</td><td>20.3</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></td><td></td><td>Not Tested</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	9.0	20.3		0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)			Not Tested	DMSO			Not Tested	EtOH			Not Tested		
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<b>Remarks:</b>																											
<b>QC Date:</b>	31-10-2019																										

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**