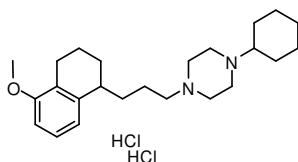




## Certificate of Analysis

**Axon Catalogue ID:** 1272 **Batch Number:** 2A  
**Product Name:** PB28 dihydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 1-Cyclohexyl-4-[3-(5-methoxy-1,2,3,4-tetrahydro-naphthalen-1-yl)-propyl]-piperazine dihydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 172906-90-0 (parent), 172907-03-8 (HCl (1:2))  
**Molecular Formula:** C<sub>24</sub>H<sub>38</sub>N<sub>2</sub>O.2HCl **Molecular Weight:** 443.49  
**Batch Molecular Formula:** C<sub>24</sub>H<sub>38</sub>N<sub>2</sub>O.2HCl **Batch Molecular Weight:** 443.49  
**Appearance:** White solid **Observed mp:** 280 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.45 DCM/MeOH (9:1)  
**Chemical Purity:** 99.1%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 65.00, H 9.09, N 6.32; Found: C ND, H ND, N ND  
**Storage Conditions:** Store at +4 °C

Solubility Data:	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

**Remarks:**

**QC Date:** 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**