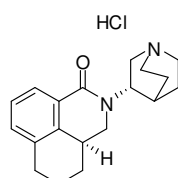




## Certificate of Analysis

**Axon Catalogue ID:** 3101 **Batch Number:** 1  
**Product Name:** Palonosetron hydrochloride  
**Alternative Name(s):** RS 25259-197  
**IUPAC Name:** (3aS)-2-[(3S)-1-Azabicyclo[2.2.2]octan-3-yl]-3a,4,5,6-tetrahydro-3H-benzo[de]isoquinolin-1-one hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 135729-61-2 (parent), 135729-62-3 (HCl (1:1))  
**Molecular Formula:** C<sub>19</sub>H<sub>24</sub>N<sub>2</sub>O.HCl **Molecular Weight:** 332.87  
**Batch Molecular Formula:** C<sub>19</sub>H<sub>24</sub>N<sub>2</sub>O.HCl **Batch Molecular Weight:** 332.87  
**Appearance:** White solid **Observed mp:** 306 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.35 DCM/MeOH/NH<sub>3</sub> (9:1:0.1)  
**Chemical Purity:** 99.9%  
**Optical Purity (ee):** Optically pure  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 68.56, H 7.57, N 8.42; Found: C 68.64, H 7.40, N 8.18  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	33.3	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	5.8	17.4	* Warming (40°C) and sonication
	EtOH			Not Tested

**Remarks:** \* Warming (40°C) and sonication enhanced solubility.

**QC Date:** 21-04-2020

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**