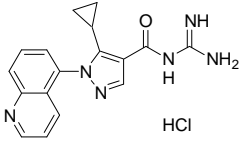




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	2022	<b>Batch Number:</b>	1																								
<b>Product Name:</b>	Zoniporide hydrochloride																										
<b>Alternative Name(s):</b>	CP 597396 hydrochloride																										
<b>IUPAC Name:</b>	N-carbamimidoyl-5-cyclopropyl-1-(quinolin-5-yl)-1H-pyrazole-4-carboxamide hydrochloride																										
<b>Structure:</b>		<b>Amount:</b>																									
<b>CAS number:</b>	241800-97-5	<b>MW:</b>	356.81																								
<b>Batch Molecular Formula:</b>	C <sub>17</sub> H <sub>16</sub> N <sub>6</sub> O.HCl.1.25H <sub>2</sub> O	<b>Batch MW:</b>	379.32																								
<b>Appearance:</b>	Off-white solid	<b>Observed mp:</b>	163 - 165 °C																								
<b>TLC (R<sub>f</sub>):</b>	0.2 DCM/MeOH (4:1)																										
<b>Chemical Purity:</b>	99.9%																										
<b>Optical Purity (ee):</b>																											
<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>	C, H, and N fit within 0,4% of theoretical calculation																										
<b>Storage Conditions:</b>	Desiccate 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>3.5</td><td>9.2</td><td>Sonication and warming (40°C) enhance solubility</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>13.3</td><td>35.1</td><td>Soluble</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	3.5	9.2	Sonication and warming (40°C) enhance solubility	0.1N NaOH (aq)			Not Tested	0.1N HCl (aq)			Not Tested	DMSO	13.3	35.1	Soluble	EtOH			Not Tested		
Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks																								
Water	3.5	9.2	Sonication and warming (40°C) enhance solubility																								
0.1N NaOH (aq)			Not Tested																								
0.1N HCl (aq)			Not Tested																								
DMSO	13.3	35.1	Soluble																								
EtOH			Not Tested																								
<b>Remarks:</b>	Microanalysis: Calcd. C 53.83, H 5.18, N 22.15, Cl 9.35; Found: C 53.94, H 5.04, N 22.21, Cl 9.82. Source Information: Pfizer compound; Sold for research purposes under agreement from Pfizer Inc.																										
<b>QC Date:</b>	4/22/2013																										

The purity of Axon products 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 Axon Catalogue ID and Batch number.

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