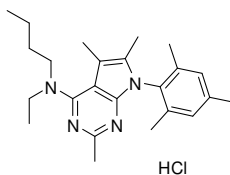




## Certificate of Analysis

**Axon Catalogue ID:** 1321 **Batch Number:** 2  
**Product Name:** Antalarmin hydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** N-Butyl-N-ethyl-7-mesityl-2,5,6-trimethyl-7H-pyrrolo[2,3-d]pyrimidin-4-amine hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 157284-96-3 (parent), 220953-69-5 (HCl (1:1))  
**Molecular Formula:** C<sub>24</sub>H<sub>34</sub>N<sub>4</sub>.HCl **Molecular Weight:** 415.01  
**Batch Molecular Formula:** C<sub>24</sub>H<sub>34</sub>N<sub>4</sub>.HCl.0.5H<sub>2</sub>O **Batch Molecular Weight:** 424.02  
**Appearance:** Off-white solid **Observed mp:** 165.4 - 168.0 °C  
**TLC (R<sub>f</sub>):** 0.8 EtOAc (100%)  
**Chemical Purity:** 98.3%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 67.98, H 8.56, N 13.21; Found: C 68.05, H 8.56, N 13.22  
**Storage Conditions:** Desiccate at -20 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	0.0	0.0	Insoluble
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)			Not Tested
DMSO	42.4	>100 mM	
EtOH	42.4	>100 mM	

**Remarks:**

**QC Date:** 21-10-2022

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**