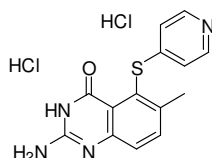




## Certificate of Analysis

**Axon Catalogue ID:** 2853 **Batch Number:** 1  
**Product Name:** Nolatrexed dihydrochloride  
**Alternative Name(s):** AG 337; Thymitaq  
**IUPAC Name:** 2-Amino-6-methyl-5-(pyridin-4-ylthio)quinazolin-4(3H)-one dihydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 147149-76-6 (parent), 152946-68-4 (HCl (1:2))  
**Molecular Formula:** C<sub>14</sub>H<sub>12</sub>N<sub>4</sub>O<sub>2</sub>S·2HCl **Molecular Weight:** 357.26  
**Batch Molecular Formula:** C<sub>14</sub>H<sub>12</sub>N<sub>4</sub>O<sub>2</sub>S·2HCl·1.6H<sub>2</sub>O **Batch Molecular Weight:** 386.08  
**Appearance:** Beige solid **Observed mp:** >275 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.3 DCM/MeOH (9:1)  
**Chemical Purity:** 98.8%  
**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 43.55, H 4.49, N 14.51; Found: C 43.15, H 4.09, N 14.15  
**Storage Conditions:** Desiccate at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water		29.0	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	16.7	43.2	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 20-06-2018

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**