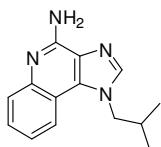




## Certificate of Analysis

**Axon Catalogue ID:** 3107 **Batch Number:** 1  
**Product Name:** Imiquimod  
**Alternative Name(s):** R-837; S26308  
**IUPAC Name:** 1-Isobutyl-1H-imidazo[4,5-c]quinolin-4-amine

**Structure:**



**Amount:**

**CAS number(s):** 99011-02-6  
**Molecular Formula:** C<sub>14</sub>H<sub>16</sub>N<sub>4</sub> **Molecular Weight:** 240.30  
**Batch Molecular Formula:** C<sub>14</sub>H<sub>16</sub>N<sub>4</sub>·0.3H<sub>2</sub>O **Batch Molecular Weight:** 245.71  
**Appearance:** White solid **Observed mp:** 297.4 - 299 °C  
**TLC (R<sub>f</sub>):** 0.6 DCM/MeOH (9:1)  
**Chemical Purity:** 99.6%  
**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 68.43, H 6.81, N 22.80; Found: C 68.08, H 6.45, N 22.58  
**Storage Conditions:** Store at +4 °C

Solubility Data:	Solvent	Solubility		Remarks
		(mg/ml)	(mM)	
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	12.0	48.8	
	DMSO	3.6	14.7	Warming at 40°C enhances solubility
	EtOH			Not Tested

**Remarks:**

**QC Date:** 08-05-2020

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**