

## Certificate of Analysis

**Axon Catalogue ID:** 1421 **Batch Number:** 3  
**Product Name:** A 83-01  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 3-(6-Methylpyridin-2-yl)-N-phenyl-4-(quinolin-4-yl)-1H-pyrazole-1-carbothioamide

**Structure:**  **Amount:** 5 mg

**CAS number(s):** 909910-43-6  
**Molecular Formula:** C<sub>25</sub>H<sub>19</sub>N<sub>5</sub>S **Molecular Weight:** 421.52  
**Batch Molecular Formula:** C<sub>25</sub>H<sub>19</sub>N<sub>5</sub>S **Batch Molecular Weight:** 421.52  
**Appearance:** Pale-yellow solid **Observed mp:** 116.4 - 117.3 °C  
**TLC (R<sub>f</sub>):** 0.8 Hex/EtOAc/NH<sub>3</sub> (1:1:0.01)  
**Chemical Purity:** 99.4%  
**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 71.24, H 4.54, N 16.61; Found: C 71.23, H 4.53, N 16.64  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	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	14.0	33.2	
	EtOH			Not Tested

**Remarks:** A83-01 is found to slowly decompose in solution to A 77-01 (Axon 1744). Hence it is highly recommended to prepare fresh solutions prior to each experiment. Stock solution(s) (e.g. in DMSO) should be stored at -20 °C (or lower) for a period no longer than one month.

**QC Date:** 15-09-2016

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**