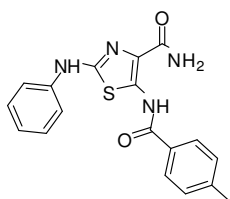




## Certificate of Analysis

**Axon Catalogue ID:** 2395 **Batch Number:** 1  
**Product Name:** KY 05009  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 5-(4-Methylbenzamido)-2-(phenylamino)thiazole-4-carboxamide

**Structure:**



**Amount:**

**CAS number(s):** 1228280-29-2  
**Molecular Formula:** C<sub>18</sub>H<sub>16</sub>N<sub>4</sub>O<sub>2</sub>S **Molecular Weight:** 352.41  
**Batch Molecular Formula:** C<sub>18</sub>H<sub>16</sub>N<sub>4</sub>O<sub>2</sub>S **Batch Molecular Weight:** 352.41  
**Appearance:** Yellow solid **Observed mp:** 258 °C  
**TLC (R<sub>f</sub>):** 0.78 DCM/MeOH (9:1)  
**Chemical Purity:** 99.5%  
**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 61.35, H 4.58, N 15.90; Found: C 61.26, H 4.52, N 15.87  
**Storage Conditions:** Store at +4 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	0.0	0.0	Insoluble
	DMSO	35.2	>100 mM	Requires Sonication
	EtOH			Not Tested

**Remarks:**

**QC Date:** 03-09-2020

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**