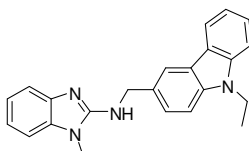




## Certificate of Analysis

**Axon Catalogue ID:** 4175 **Batch Number:** 1  
**Product Name:** AJ2-30  
**Alternative Name(s):** N.A.  
**IUPAC Name:** N-((9-Ethyl-9H-carbazol-3-yl)methyl)-1-methyl-1H-benzo[d]imidazol-2-amine

**Structure:**



**Amount:**

**CAS number(s):** 2700322-79-6  
**Molecular Formula:** C<sub>23</sub>H<sub>22</sub>N<sub>4</sub> **Molecular Weight:** 354.45  
**Batch Molecular Formula:** C<sub>23</sub>H<sub>22</sub>N<sub>4</sub>.0.25H<sub>2</sub>O **Batch Molecular Weight:** 358.95  
**Appearance:** White solid **Observed mp:** 197.0 - 198.8 °C  
**TLC (R<sub>f</sub>):** 0.31 Hex/EtOAc (1:1)  
**Chemical Purity:** 99.6%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 76.96, H 6.32, N 15.61; Found: C 77.25, H 6.19, N 15.54  
**Storage Conditions:** Store at -20 °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	35.9	>100 mM	
	EtOH	2.8	7.8	

**Remarks:**

**QC Date:** 21-5-2024

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**