



## Certificate of Analysis

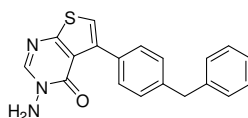
**Axon Catalogue ID:** 2774 **Batch Number:** 1

**Product Name:** Barbadin

**Alternative Name(s):** N.A.

**IUPAC Name:** 3-Amino-5-(4-benzylphenyl)thieno[2,3-d]pyrimidin-4(3H)-one

**Structure:**



**Amount:**

**CAS number(s):** 356568-70-2

**Molecular Formula:** C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>S

**Molecular Weight:** 333.41

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**Batch Molecular Weight:** 333.41

**Appearance:** Off-white solid

**Observed mp:** 181 - 184 °C

**TLC (R<sub>f</sub>):** 0.4 Hex/EtOAc (1:1)

**Chemical Purity:** 99.2%

**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure

**Mass Spec:** Analytical data confirm chemical structure

**Microanalysis:** Calculated: C 68.45, H 4.53, N 12.60; Found: C 68.52, H 4.66, N 12.67

**Storage Conditions:** Desiccate 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)			Not Tested
	DMSO	10.5	31.5	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 19-9-2023

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**