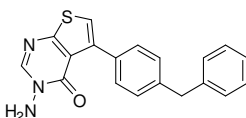




Certificate of Analysis

Axon Catalogue ID: 2774 **Batch Number:** 3
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: C₁₉H₁₅N₃O₃ **Molecular Weight:** 333.41
Batch Molecular Formula: C₁₉H₁₅N₃O₃.0.25H₂O **Batch Molecular Weight:** 337.91
Appearance: Pale-yellow solid **Observed mp:** 184.3 - 187.5 °C
TLC (R_f): 0.8 DCM/MeOH (20:1)
Chemical Purity: 98.5%
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 67.53, H 4.62, N 12.44; Found: C 67.72, H 4.41, N 12.28
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	33.8	>100 mM	
	EtOH	0.0	0.0	Insoluble

Remarks:

QC Date: 10-2-2023

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 indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only