



Certificate of Analysis

Axon Catalogue ID:	2774	Batch Number:	2
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 ₁₉ H ₁₅ N ₃ O ₂ S	Molecular Weight:	333.41
Batch Molecular Formula:	C ₁₉ H ₁₅ N ₃ O ₂ S	Batch Molecular Weight:	333.41
Appearance:	Pale-yellow solid	Observed mp:	186.6 - 189.4 °C
TLC (R_f):	0.8	DCM/MeOH (20:1)	
Chemical Purity:	99.8%		
Optical Purity (ee):	N.A.		
¹H-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 68.57, H 4.40, N 12.68		
Storage Conditions:	Desiccate at -20 °C		
Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)
	Water	0.0	0.0
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO	15.2	45.6
	EtOH		Not Tested
Remarks:			
QC Date:	29-7-2021		

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