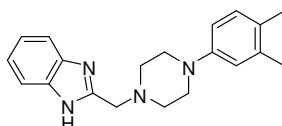




Certificate of Analysis

Axon Catalogue ID: 2944 **Batch Number:** 1
Product Name: A 381393
Alternative Name(s): N.A.
IUPAC Name: 2-((4-(3,4-Dimethylphenyl)piperazin-1-yl)methyl)-1H-benzo[d]imidazole

Structure:



Amount:

CAS number(s): 726174-00-1
Molecular Formula: C₂₀H₂₄N₄ **Molecular Weight:** 320.43
Batch Molecular Formula: C₂₀H₂₄N₄ **Batch Molecular Weight:** 320.43
Appearance: White solid **Observed mp:** 201 - 203 °C
TLC (R_f): 0.68 DCM/MeOH (9:1)
Chemical Purity: 99.9%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 74.97, H 7.55, N 17.48; Found: C 75.08, H 7.49, N 17.63
Storage Conditions: Store at +4 °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)	21.0	65.5	
	DMSO	32.0	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 10-04-2019

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