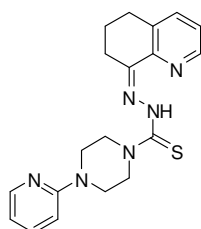




Certificate of Analysis

Axon Catalogue ID: 2841 **Batch Number:** 1
Product Name: COTI-2
Alternative Name(s): N.A.
IUPAC Name: N'-(6,7-Dihydroquinolin-8(5H)-ylidene)-4-(pyridin-2-yl)piperazine-1-carbothiohydrazide

Structure:



Amount:

CAS number(s): 1039455-84-9
Molecular Formula: C₁₉H₂₂N₆S **Molecular Weight:** 366.48
Batch Molecular Formula: C₁₉H₂₂N₆S.0.25H₂O **Batch Molecular Weight:** 370.99
Appearance: Yellow solid **Observed mp:** 212 - 214 °C (decomp)
TLC (R_f): 0.34 DCM/MeOH (92:8)
Chemical Purity: 99.1%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 61.51, H 6.11, N 22.65; Found: C 61.67, H 5.92, N 22.91
Storage Conditions: Desiccate at -20 °C

Solubility Data:	Solvent	Solubility		Remarks
		(mg/ml)	(mM)	
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)	0.0	0.0	Insoluble
	0.1N HCl (aq)	16.8	45.3	
	DMSO	8.4	22.6	
	EtOH	4.0	10.8	

Remarks: Compound exists in cis/trans forms (approx. 8:2 ratio) based on NMR.

QC Date: 02-03-2018

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