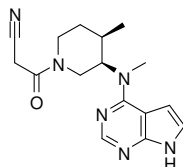




Certificate of Analysis

Axon Catalogue ID: 1338 **Batch Number:** 5
Product Name: CP 690550
Alternative Name(s): Tasocitinib; Tofacitinib
IUPAC Name: 3-((3R,4R)-4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidin-1-yl)-3-oxo-propionitrile

Structure:



Amount:

CAS number(s): 477600-75-2
Molecular Formula: C₁₆H₂₀N₆O **Molecular Weight:** 312.37
Batch Molecular Formula: C₁₆H₂₀N₆O **Batch Molecular Weight:** 312.37
Appearance: White solid **Observed mp:** ND
TLC (R_f): 0.5 DCM/MeOH (9:1)
Chemical Purity: 98.5%
Optical Purity (ee): 99.0%
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 61.52, H 6.45, N 26.90; Found: C ND, H ND, N ND
Storage Conditions: Desiccate at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	11.0	35.2	
	DMSO	31.2	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 5-10-2018

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