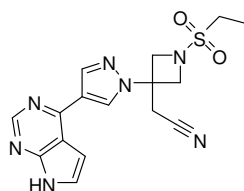




Certificate of Analysis

Axon Catalogue ID: 1955 **Batch Number:** 2
Product Name: Baricitinib
Alternative Name(s): INCB 028050; LY 3009104
IUPAC Name: 2-(3-(4-(7H-Pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-1-(ethylsulfonyl)azetidin-3-yl)acetonitrile

Structure:



Amount:

CAS number(s): 1187594-09-7
Molecular Formula: C₁₆H₁₇N₇O₂S **Molecular Weight:** 371.42
Batch Molecular Formula: C₁₆H₁₇N₇O₂S **Batch Molecular Weight:** 371.42
Appearance: White solid **Observed mp:** 213 - 214 °C
TLC (R_f): 0.46 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 51.74, H 4.61, N 26.40; Found: C 51.76, H 4.84, N 26.57
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility		Remarks
		(mg/ml)	(mM)	
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	12.0	32.3	Warming to 40 °C enhances solubility
	DMSO	37.1	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 18-01-2019

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