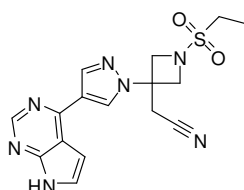




## Certificate of Analysis

**Axon Catalogue ID:** 1955 **Batch Number:** 1  
**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:** C<sub>16</sub>H<sub>17</sub>N<sub>7</sub>O<sub>2</sub>S **Molecular Weight:** 371.42  
**Batch Molecular Formula:** C<sub>16</sub>H<sub>17</sub>N<sub>7</sub>O<sub>2</sub>S **Batch Molecular Weight:** 371.42  
**Appearance:** White solid **Observed mp:** 212 - 214 °C  
**TLC (R<sub>f</sub>):** 0.47 DCM/MeOH (9:1)  
**Chemical Purity:** 99.5%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-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 51.54, H 4.52, N 26.36  
**Storage Conditions:** Store at +4 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	9.6	25.8	Warming to 40 °C enhances solubility
	DMSO	37.1	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 12-06-2018

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**