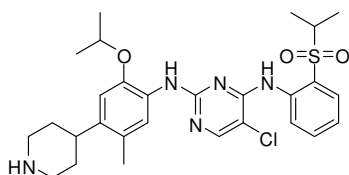




## Certificate of Analysis

**Axon Catalogue ID:** 2224 **Batch Number:** 1  
**Product Name:** LDK 378  
**Alternative Name(s):** Ceritinib  
**IUPAC Name:** 5-Chloro-N2-(2-isopropoxy-5-methyl-4-(piperidin-4-yl)phenyl)-N4-(2-(isopropylsulfonyl)phenyl)pyrimidine-2,4-diamine

**Structure:**



**Amount:**

**CAS number(s):** 1032900-25-6  
**Molecular Formula:** C<sub>28</sub>H<sub>36</sub>ClN<sub>5</sub>O<sub>3</sub>S **Molecular Weight:** 558.14  
**Batch Molecular Formula:** C<sub>28</sub>H<sub>36</sub>ClN<sub>5</sub>O<sub>3</sub>S.0.5H<sub>2</sub>O **Batch Molecular Weight:** 567.15  
**Appearance:** Off-white solid **Observed mp:** 169 - 171 °C  
**TLC (R<sub>f</sub>):** 0.2 DCM/MeOH/NH<sub>3</sub> (9:1:0.1)  
**Chemical Purity:** 99.2%  
**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 59.30, H 6.58, N 12.35; Found: C 59.35, H 6.47, N 12.24  
**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)	15.0	26.4	
	DMSO	11.0	19.4	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 31-01-2019

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

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