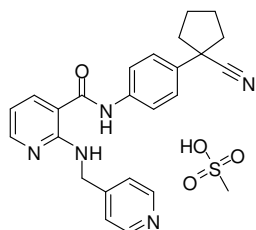




## Certificate of Analysis

**Axon Catalogue ID:** 2849 **Batch Number:** 1  
**Product Name:** Apatinib  
**Alternative Name(s):** Apatinib mesylate; YN968D1; Rivoceranib mesylate  
**IUPAC Name:** N-(4-(1-cyanocyclopentyl)phenyl)-2-(pyridin-4-ylmethylamino)nicotinamide mesylate

**Structure:**



**Amount:**

**CAS number(s):** 811803-05-1 (parent), 1218779-75-9 (mesylate (1:1))  
**Molecular Formula:** C<sub>24</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S **Molecular Weight:** 493.58  
**Batch Molecular Formula:** C<sub>24</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S.1H<sub>2</sub>O **Batch Molecular Weight:** 511.59  
**Appearance:** White solid **Observed mp:** 198.3 - 199.0 °C  
**TLC (R<sub>f</sub>):** 0.65 DCM/MeOH (9:1)  
**Chemical Purity:** 99.6%  
**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 58.69, H 5.71, N 13.69; Found: C 58.67, H 5.47, N 13.72  
**Storage Conditions:** Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water		0.0	0.0
0.1N NaOH (aq)				Not Tested
0.1N HCl (aq)				Not Tested
DMSO		33.3	65.2	
EtOH				Not Tested

**Remarks:**

**QC Date:** 13-04-2018

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**