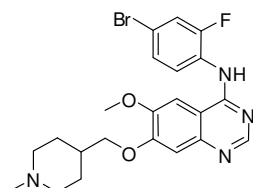




## Certificate of Analysis

**Axon Catalogue ID:** 1411 **Batch Number:** 1  
**Product Name:** Vandetanib  
**Alternative Name(s):** ZD 6474  
**IUPAC Name:** N-(4-Bromo-2-fluorophenyl)-6-methoxy-7-((1-methylpiperidin-4-yl)methoxy)quinazolin-4-amine

**Structure:**



**Amount:**

**CAS number(s):** 443913-73-3  
**Molecular Formula:** C<sub>22</sub>H<sub>24</sub>BrFN<sub>4</sub>O<sub>2</sub> **Molecular Weight:** 475.35  
**Batch Molecular Formula:** C<sub>22</sub>H<sub>24</sub>BrFN<sub>4</sub>O<sub>2</sub> **Batch Molecular Weight:** 475.35  
**Appearance:** White solid **Observed mp:** 230.0 - 232.5 °C  
**TLC (R<sub>f</sub>):** 0.25 DCM/MeOH/NH<sub>3</sub> (1:1:0.01)  
**Chemical Purity:** 100%  
**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 55.59, H 5.09, N 11.79; Found: C ND, H ND, N ND  
**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)	47.5	>100 mM	Soluble upon compensating acid
	DMSO	47.5	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 15-02-2019

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**