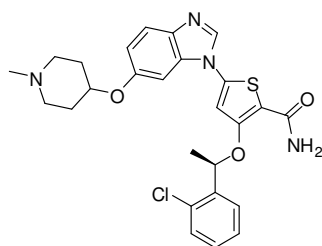




## Certificate of Analysis

**Axon Catalogue ID:** 1625 **Batch Number:** 1  
**Product Name:** GSK579289A  
**Alternative Name(s):** GSK461364 analogue I  
**IUPAC Name:** (R)-3-(1-(2-Chlorophenyl)ethoxy)-5-(6-(1-methylpiperidin-4-yloxy)-1H-benzo[d]imidazol-1-yl)thiophene-2-carboxamide

**Structure:**



**Amount:**

**CAS number(s):** 929095-23-8  
**Molecular Formula:** C<sub>26</sub>H<sub>27</sub>ClN<sub>4</sub>O<sub>3</sub>S **Molecular Weight:** 511.04  
**Batch Molecular Formula:** C<sub>26</sub>H<sub>27</sub>ClN<sub>4</sub>O<sub>3</sub>S **Batch Molecular Weight:** 511.04  
**Appearance:** Off-white solid **Observed mp:** ND  
**TLC (R<sub>f</sub>):** 0.13 DCM/MeOH (9:1)  
**Chemical Purity:** 98.8%  
**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 61.11, H 5.33, N 10.96; Found: C ND, H ND, N ND  
**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)	1.0	2.0	Insoluble
	DMSO	27.0	52.8	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 20-12-2018

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**