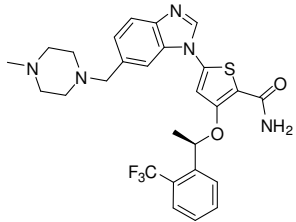




Certificate of Analysis

| | | | | |
|-------------------------------------|--|--------------------------------|------------------------|----------------|
| Axon Catalogue ID: | 1688 | Batch Number: | 2 | |
| Product Name: | GSK 461364 | | | |
| Alternative Name(s): | N.A. | | | |
| IUPAC Name: | (R)-5-(6-((4-methylpiperazin-1-yl)methyl)-1H-benzo[d]imidazol-1-yl)-3-(1-(2-(trifluoromethyl)phenyl)ethoxy)thiophene-2-carboxamide | | | |
| Structure: |  | | Amount: | |
| CAS number(s): | 929095-18-1 | | | |
| Molecular Formula: | C ₂₇ H ₂₈ F ₃ N ₅ O ₂ S | Molecular Weight: | 543.60 | |
| Batch Molecular Formula: | C ₂₇ H ₂₈ F ₃ N ₅ O ₂ S.0.75H ₂ O | Batch Molecular Weight: | 557.12 | |
| Appearance: | Light-brown solid | Observed mp: | 198 - 200 °C (decomp) | |
| TLC (R_f): | 0.5 | DCM/MeOH (9:1) | | |
| Chemical Purity: | 99.5% | | | |
| Optical Purity (ee): | Optically pure | | | |
| ¹H-NMR (300 MHz): | Analytical data confirm chemical structure | | | |
| Mass Spec: | Analytical data confirm chemical structure | | | |
| Microanalysis: | Calculated: C 58.21, H 5.34, N 12.57; Found: C 58.17, H 5.05, N 12.49 | | | |
| Storage Conditions: | Store at +4 °C | | | |
| Solubility Data: | Solvent | Solubility (mg/ml) | Solubility (mM) | Remarks |
| | Water | 0.0 | 0.0 | Insoluble |
| | 0.1N NaOH (aq) | | | Not Tested |
| | 0.1N HCl (aq) | | | Not Tested |
| | DMSO | 33.0 | 59.2 | |
| | EtOH | | | Not Tested |
| Remarks: | | | | |
| QC Date: | 5-5-2017 | | | |

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 indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only