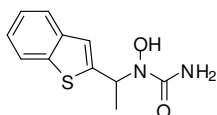




Certificate of Analysis

Axon Catalogue ID: 3256 **Batch Number:** 1
Product Name: Zileuton
Alternative Name(s): A-64077
IUPAC Name: 1-(1-(Benzo[b]thiophen-2-yl)ethyl)-1-hydroxyurea

Structure:



Amount:

CAS number(s): 111406-87-2
Molecular Formula: C₁₁H₁₂N₂O₂S **Molecular Weight:** 236.29
Batch Molecular Formula: C₁₁H₁₂N₂O₂S **Batch Molecular Weight:** 236.29
Appearance: White solid **Observed mp:** >155 °C (decomp)
TLC (R_f): 0.51 DCM/MeOH (1:1)
Chemical Purity: 99.6%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 55.91, H 5.12, N 11.86; Found: C 55.54, H 5.01, N 11.80
Storage Conditions: Store at +4 °C

| Solubility Data: | Solvent | Solubility | | Remarks |
|-------------------------|----------------|-------------------|-------------|----------------|
| | | (mg/ml) | (mM) | |
| | Water | 0.0 | 0.0 | Insoluble |
| | 0.1N NaOH (aq) | 6.0 | 25.4 | |
| | 0.1N HCl (aq) | | | Not Tested |
| | DMSO | 23.6 | >100 mM | |
| | EtOH | | | Not Tested |

Remarks:

QC Date: 26-10-2020

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