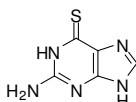




Certificate of Analysis

Axon Catalogue ID: 3253 **Batch Number:** 1
Product Name: 6-Thioguanine
Alternative Name(s): N.A.
IUPAC Name: 2-Amino-1H-purine-6(9H)-thione

Structure:



Amount:

CAS number(s): 154-42-7
Molecular Formula: C₅H₅N₅S **Molecular Weight:** 167.19
Batch Molecular Formula: C₅H₅N₅S **Batch Molecular Weight:** 167.19
Appearance: Off-white solid **Observed mp:** >300 °C
TLC (R_f): 0.1 DCM/MeOH (1:1)
Chemical Purity: 99.5%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 35.92, H 3.01, N 41.89; Found: C 35.80, H 2.99, N 41.86
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) | 9.0 | 53.8 | * Sonication |
| | 0.1N HCl (aq) | | | Not Tested |
| | DMSO | 8.0 | 47.8 | ** Warming (40°C) |
| | EtOH | | | Not Tested |

Remarks: ** Warming (40°C) and * sonication enhanced solubility.

QC Date: 7-7-2021

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