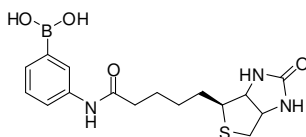




Certificate of Analysis

Axon Catalogue ID: 2256 **Batch Number:** 1
Product Name: Biotinyl-phenylboronic acid
Alternative Name(s): N.A.
IUPAC Name: 3-(5-((4S)-2-Oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanamido)phenylboronic acid

Structure:



Amount:

CAS number(s): 1661014-48-7
Molecular Formula: C₁₆H₂₂BN₃O₄S **Molecular Weight:** 363.24
Batch Molecular Formula: C₁₆H₂₂BN₃O₄S **Batch Molecular Weight:** 363.24
Appearance: Off-white solid **Observed mp:** 192 °C
TLC (R_f): 0.37 DCM/MeOH 6:1
Chemical Purity: 99.2%
Optical Purity (ee): Optical pure
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 52.90, H 6.10, N 11.57; Found: C ND, H ND, N ND
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) | 9.5 | 26.2 | |
| | 0.1N HCl (aq) | | | Not Tested |
| | DMSO | 36.3 | >100 mM | |
| | EtOH | 36.3 | >100 mM | |

Remarks: Stock solution can be prepared by dissolving Biotinyl-phenylboronic acid (Axon 2256) in MeOH (0.1 M), which can be diluted by water up to 1 mM solution in MeOH-H₂O (1:100).

QC Date: 17-9-2024

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