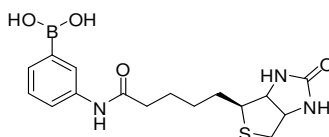




Certificate of Analysis

Axon Catalogue ID: 2256 **Batch Number:** 2
Product Name: Biotinyl-phenylboronic acid
Alternative Name(s): N.A.
IUPAC Name: 3-(5-((4S)-2-Oxo-hexahydro-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.0.5H₂O **Batch Molecular Weight:** 372.25
Appearance: White solid **Observed mp:** 166.5 - 168.5 °C
TLC (R_f): 0.5 DCM/MeOH (4:1)
Chemical Purity: 98.8%
Optical Purity (ee): Optically pure
Optical Rotation (Det.): [α]_D = +72.8° with c = 1 in MeOH
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 51.62, H 6.23, N 11.29; Found: C 51.36, H 6.40, N 11.26
Storage Conditions: Store at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)	7.6	20.4	
	0.1N HCl (aq)			Not Tested
	DMSO	37.2	>100 mM	
	EtOH	7.3	19.7	

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).

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