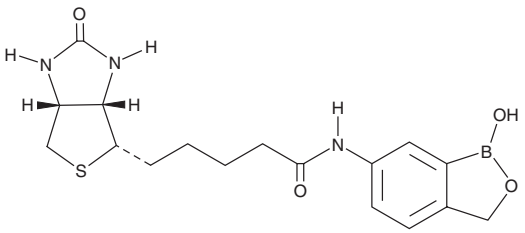
PRODUCT INFORMATION

Bio-Ben

Item No. 39299

Formal Name:	N-(1-hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-6-yl)-5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl) pentanamide
Synonym:	Biotin-Benzoboroxole
MF:	$C_{17}H_{22}BN_3O_4S$
FW:	375.2
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Bio-ben is supplied as a crystalline solid. A stock solution may be made by dissolving the bio-ben in the solvent of choice, which should be purged with an inert gas. Bio-ben is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of bio-ben in these solvents is approximately 5 mg/ml.

Description

Bio-ben is a probe for sulfenic acid. It has been used to label free sulfenic acid, as well as cysteine sulfenic acid in proteins and peptides.[1]

Reference

1. Niu Y, Chen Z, Jiang Z, *et al.* Detection of cysteine sulfenic acid on *E. coli* proteins with a biotin-benzoboroxole probe. *ACS Chem. Biol.* **18(6)**, 1351-1359 (2023).

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