

Hello Bio, Inc.
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DATASHEET

Boromycin

Product overview

Name	Boromycin
Cat No	HB3809
Biological action	Antibiotic
Purity	>99%
Description	Macrolide antibiotic with various biological actions

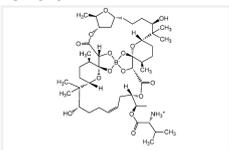
Biological Data

Biological description	Boron-containing macrolide antibiotic. Antibacterial. Antiprotozoal (Plasmodium, Babesia). Anti-HIV compound. Ca ²⁺ homeostasis modulator. Potentiator of bleomycin-induced anti-tumor activity. Used as a chiral selector in capillary electrophoresis.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO and in ethanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	[1-((1R)-1-[(1R,2R,5S,6R,8R,12R,14S,17R,18R,22S,24Z,28S,30S,33R)-12,28-Dihydroxy-1,2,18,19-tetra(hydroxy-kO)-6,13,13,17,29,29,33-heptamethyl-3,20-dioxo-4,7,21,34,35-pentaoxatetracyclo[28.3.1.15.8.114,18]hexatriacont-24-en-22-yl]ethoxy)-3-methyl-1-oxo-2-butanaminiumato(4-)]boron
Molecular Weight	879.9
Chemical structure	
Molecular Formula	C ₄₅ H ₇₄ BNO ₁₅
CAS Number	34524-20-4
PubChem identifier	73656818
SMILES	[B-]123OC4C(=O)OC(CC=CCCC(C5CCC(C(O1)(O5)C(O2)C(=O)OC6CC(CCCC(C(C7CCC(C4(O3)O7)C)(C)C)O)OC6C)C)(C)C)O)C(C)OC(=O)C(C(C)C)[NH3+]
Source	Extracted from <i>Streptomyces</i> sp
InChi	InChI=1S/C45H74BNO15/c1-24(2)36(47)39(50)54-27(5)30-16-12-11-13-17-32(48)42(7,8)34-21-19-26(4)45(57-34)38-41(52)56-31-23-29(53-28(31)6)15-14-18-33(49)43(9,10)35-22-20-25(3)44(58-35)37(40(51)55-30)59-46(60-38,61-44)62-45/h11-12,24-38,48-49H,13-23,47H2,1-10
InChiKey	OOFYEMEQCZLJL-UWTAGDQBSA-O
Appearance	Off-white solid