

Hello Bio, Inc.
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DATASHEET

Boromycin

Product overview

| | |
|--------------------|------------------------------------------------------|
| Name | Boromycin |
| Cat No | HB3809 |
| Purity | >99% |
| Description | Macrolide antibiotic with various biological actions |

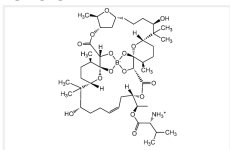
Biological Data

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| 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

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| 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

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|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Streptomyces 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 |