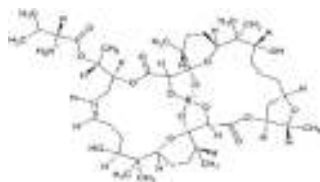


# Boromycin

**ALTERNATE NAME:** NSC-121380  
(T-4)-[(1R)-1-[(1S,2R,5S,6R,8R,12R,14S,17R,18S,19R,22S,24Z,28S,30S,33R)-1,2,18,19-tetra(hydroxy-κO)-12,28-dihydroxy-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]ethyl D-valinato(4-)]-borate(1-), monohydrogen

**CATALOG #:** B3224-1000 1 mg  
B3224-250 250 µg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>45</sub>H<sub>74</sub>BNO<sub>15</sub>

**MOLECULAR WEIGHT:** 879.9

**CAS NUMBER:** 34524-20-4

**APPEARANCE:** Off-white solid

**PURITY:** ≥98%

**SOLUBILITY:** DMSO

**DESCRIPTION:** Boromycin is a boron-containing macrolide antibiotic that displays antibacterial, and antiprotozoal properties. Boromycin (3.4 nM) reverses bleomycin-induced cell cycle arrest at the G2 phase in Jurkat cells. It inhibits replication of the HIV-1 strains LAV-1 and RF and the HIV-2 strain LAV-2 in MT-4 cells (IC<sub>50</sub>s = 0.008, 0.11, and 0.007 µM, respectively). It also inhibits replication of a clinical isolate of HIV-1, strain KK-1, in MT-4 cells and peripheral blood mononuclear cells.

**STORAGE TEMPERATURE:** -20°C. Protect from moisture

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Dirithromycin (B2693)  
Troleandomycin (B2694)  
Tildipirosin (9673)  
Erythromycin (9619)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*