
Product Data Sheet

Product Name: Tetromycin B

Cat. No.: GC19001

Chemical Properties

Cas. No. 180027-84-3

(1S,4S,4aS,6aR,7E,11E,12aR,15R,16aS,20aS,20bR)-

Chemical Name 2,3,4,4a,6a,9,10,12a,15,16,20a,20b-dodecahydro-4,21-trihydroxy-1,6,7,11,12a,14,15,20a-octamethyl-8H-16a,19-metheno-16aH-benzo[b]naphth[2,1-j]oxacyclotetradecin-18,20(1H)-dione

SMILES CC1=C[C@@]2([H])[C@@]([C@@](C(C3=C4O)=O)(C)[C@]1([H])/C(C)=C/CC/C(C)=C/[C@@]5(C)[C@@]4(OC3=O)C[C@@H](C)C(C)=C5)([H])[C@@H](C)CC[C@@H]2O

Formula C₃₄H₄₆O₅

M.Wt 534.7

Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Tetromycin B is a cysteine protease inhibitor with K_i values of 0.62, 1.42, 32.5, and 1.59 μM for rhodesain, falcipain-2, cathepsin L, and cathepsin B, respectively. It inhibits the growth of *T. brucei* in vitro ($\text{IC}_{50} = 30.87 \mu\text{M}$). Tetromycin B is also cytotoxic to HEK293T kidney cells and J774.1 macrophages (IC_{50} s = 71.77 and 20.2 μM , respectively).

Caution: Product has not been fully validated for medical applications. For research use only.

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