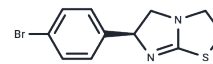


(-)-p-Bromotetramisole Oxalate

Chemical Properties

CAS No. :	62284-79-1
Formula:	C13H13BrN2O4S
Molecular Weight:	373.22
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	(-)-p-Bromotetramisole Oxalate (6-Bromolevamisole oxalate) is a potent and non-specific inhibitor of alkaline phosphatase.
Targets(IC50)	Phosphatase,Phosphorylase
In vitro	Aurora A Inhibitor I is a 2,4-dianilinopyrimidine that selectively and potently inhibits Aurora A. Aurora A Inhibitor I effectively inhibits the proliferation of HCT116 and HT29 cells, with IC50 of 190 nM and 2.9 μM, respectively. The Aurora A selectivity of Aurora A Inhibitor I against Aurora B depends on a single amino acid (Thr217) of Aurora A. [1] In KCL-22 cells, Aurora A Inhibitor I (1-5 μM) increases G2/M cell fraction, induces histone H3 serine 10 phosphorylation, and suppresses mitotic Aurora A autophosphorylation on Thr288. Aurora A Inhibitor I (0.5-5 μM) also suppresses cell proliferation in KCL-22 cells, as well as BCR-ABL-negative leukemia cell lines KG-1 and HL-60. Aurora A Inhibitor I effectively induces apoptosis in KCL-22 cells at 5 μM. [2] In a recent study, Aurora A Inhibitor I is also found to inhibit cell growth of HCT116, HT29, and HeLa cells, with IC50 of 377.6 nM, 5.6 μM, and 416 nM. [3]

Solubility Information

Solubility	H2O: 28 mg/mL (75.02 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 60 mg/mL (160.76 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.36 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6794 mL	13.3969 mL	26.7938 mL
5 mM	0.5359 mL	2.6794 mL	5.3588 mL
10 mM	0.2679 mL	1.3397 mL	2.6794 mL
50 mM	0.0536 mL	0.2679 mL	0.5359 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Onsgard-Meyer M, et al. Proc Soc Exp Biol Med. 1996 Nov;213(2):193-5.

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