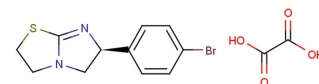


(-)-p-Bromotetramisole Oxalate

Chemical Properties

CAS No.:	62284-79-1
Formula:	C ₁₃ H ₁₃ BrN ₂ O ₄ S
Molecular Weight:	373.22
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	p-Bromotetramisole Oxalate is a potent and non-specific alkaline phosphatase inhibitor.
Targets(IC ₅₀)	alkaline phosphatase: None
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 IC ₅₀ 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 IC ₅₀ of 377.6 nM, 5.6 μM, and 416 nM. [3]

Solubility Information

Solubility	DMSO: 69 mg/mL (184.9 mM) Ethanol: <1 mg/mL Water: 28 mg/mL (75 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.679 mL	13.397 mL	26.794 mL
5 mM	0.536 mL	2.679 mL	5.359 mL
10 mM	0.268 mL	1.34 mL	2.679 mL
50 mM	0.054 mL	0.268 mL	0.536 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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