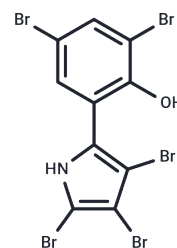


Pentabromopseudilin

Chemical Properties

CAS No. :	10245-81-5
Formula:	C ₁₀ H ₄ Br ₅ NO
Molecular Weight:	553.66
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pentabromopseudilin (PBrP), a marine antibiotic derived from <i>Pseudomonas bromoutilis</i> and <i>Alteromonas luteoviolaceus</i> , demonstrates antimicrobial, antitumor, and phytotoxic properties. It acts as a reversible, allosteric inhibitor of myosin Va (MyoVa) and robustly inhibits transforming growth factor- β (TGF- β) activity. PBrP is utilized in researching fibrotic diseases and cancer [1].
Targets(IC50)	Others, TGF-beta/Smad
In vitro	Pentabromopseudilin (PBrP) at concentrations of 0.01-1 μ M for 6 hours inhibited TGF- β -induced phosphorylation and nuclear translocation of Smad proteins [1]. Additionally, at 0.5 μ M for 6 hours, PBrP suppressed the transcriptional response stimulated by TGF- β [1]. Furthermore, PBrP across a range of 0-1 μ M for 6 hours impeded TGF- β -induced epithelial-mesenchymal transition (EMT) in A549 cells [1]. At a specific dose of 0.2 μ M for 20 hours, PBrP obstructed cell migration prompted by TGF- β [1]. PBrP at 0.01-1 μ M for 6 hours blocked TGF- β signaling by enhancing the degradation of T β R _{II} [1]. At a concentration of 0.5 μ M and at time intervals of 0, 1, and 3 hours, PBrP disrupted TGF- β signaling by promoting T β R _{II} degradation through caveolae-dependent endocytosis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8062 mL	9.0308 mL	18.0616 mL
5 mM	0.3612 mL	1.8062 mL	3.6123 mL
10 mM	0.1806 mL	0.9031 mL	1.8062 mL
50 mM	0.0361 mL	0.1806 mL	0.3612 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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