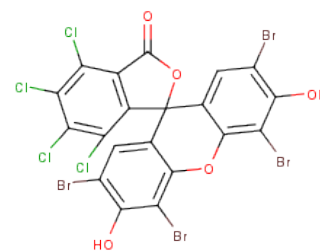


Phloxine B

Chemical Properties

CAS No. :	18472-87-2
Formula:	C ₂₀ H ₂ Br ₄ Cl ₄ Na ₂ O ₅
Molecular Weight:	829.63
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Phloxine B is a red dye, the USP grade of which is used as a color additive for food, drugs, and cosmetics. It has also been used as an alternative to Gram staining, to differentiate between Gram-negative and Gram-positive bacteria. At 100 µg/ml, it can inhibit methicillin-resistant <i>S. aureus</i> growth in vitro. Phloxine B has also been shown to modulate channel activity of wild-type cystic fibrosis transmembrane conductance regulator chloride channels (CFTR; $K_i = 38 \mu\text{M}$) and mutant delta F508 CFTR ($K_i = 33 \mu\text{M}$).
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 2 mg/mL (2.41 mM),Sonication is recommended. DMF: 30 mg/mL (36.16 mM),Sonication is recommended. DMSO: 30 mg/mL (36.16 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (12.05 mM),Sonication is recommended. ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2054 mL	6.0268 mL	12.0536 mL
5 mM	0.2411 mL	1.2054 mL	2.4107 mL
10 mM	0.1205 mL	0.6027 mL	1.2054 mL
50 mM	0.0241 mL	0.1205 mL	0.2411 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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