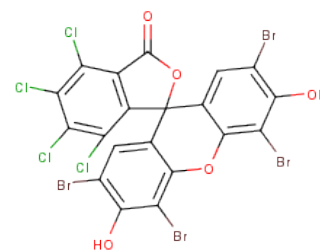


Phloxine B

Chemical Properties

CAS No. :	18472-87-2
Formula:	C ₂₀ H ₄ Br ₄ Cl ₄ NaO ₅
Molecular Weight:	808.65
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 ($K_i = 33 \mu\text{M}$).
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Solubility Information

Solubility	Ethanol: 2 mg/mL DMF: 30 mg/mL DMSO: 30 mg/mL PBS (pH 7.2): 10 mg/mL ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2366 mL	6.1831 mL	12.3663 mL
5 mM	0.2473 mL	1.2366 mL	2.4733 mL
10 mM	0.1237 mL	0.6183 mL	1.2366 mL
50 mM	0.0247 mL	0.1237 mL	0.2473 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.

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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