

Product Data Sheet

Product Name: Phloxine B

Cat. No.: GC44630

Chemical Properties

Cas. No. 18472-87-2

SMILES BrC1=C([O-])C(Br)=CC2=C1OC3=C(Br)C([O-])=C(Br)C=C3C24C(C(Cl)=C(Cl)C(Cl)=C5Cl)=C5C(O4)=O.[Na+].[Na+]

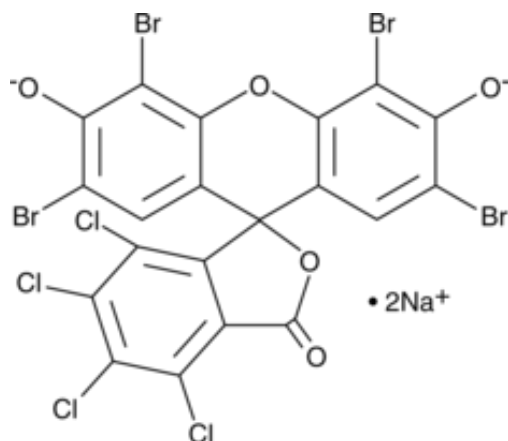
Formula $C_{20}H_2Br_4Cl_4O_5 \cdot 2Na$ M.Wt 829.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 2 mg/ml, PBS (pH 7.2): 10 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

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 *S. aureus* growth in vitro. Phloxine B has also been shown to modulate channel activity of wild-type cystic fibrosis transmembrane conductance regulator chloride channels (CFTR; $K_i = 38 \mu M$) and mutant delta F508

Caution: Product has not been fully validated for medical applications. For research use only.

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

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