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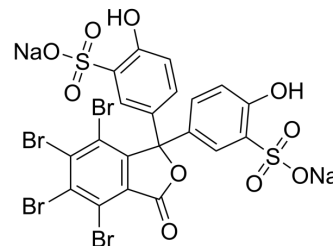
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Sulfobromophthalein disodium salt

Cat. No.:	HY-D0217
CAS No.:	71-67-0
Molecular Formula:	C ₂₀ H ₈ Br ₄ Na ₂ O ₁₀ S ₂
Molecular Weight:	838
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 500 mg/mL (596.66 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.1933 mL	5.9666 mL	11.9332 mL
		5 mM	0.2387 mL	1.1933 mL	2.3866 mL
		10 mM	0.1193 mL	0.5967 mL	1.1933 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 4.17 mg/mL (4.98 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 4.17 mg/mL (4.98 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.17 mg/mL (4.98 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Sulfobromophthalein (Bromosulfophthalein) disodium salt is an organic anion dye used in the study of a variety of membrane carriers expressed in animal tissues and involved in transport of agents and metabolites ^[1] .
In Vitro	Sulfobromophthalein disodium salt is a synthetic dye introduced in 1925 as a clinical tool aiming at the assessment of the liver function ^[1] . Sulfobromophthalein (BSP) is a pH indicator dye, featured by fast (17), protondependent quinoidal–phenolic tautomerism (pK = 8.5) ^[1] . Bromosulfalein has been commonly used as both a substrate and inhibitor of organic anionic transporting polypeptide 1B1

(OATP1B1), OATP1B3, OATP1A2, and OATP2B1, as well as multidrug resistance protein 2 (MDR2) [2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Eur J Med Chem. 20 October 2021, 113935.
- ACS Omega. 2023 Feb 3; 8 (6), 6067-6077.

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REFERENCES

[1]. Saki Izumi, et al. Substrate-dependent inhibition of organic anion transporting polypeptide 1B1: comparative analysis with prototypical probe substrates estradiol-17 β -glucuronide, estrone-3-sulfate, and sulfobromophthalein. Drug Metab Dispos. 2013 Oct;41(10):1859-66.

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

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