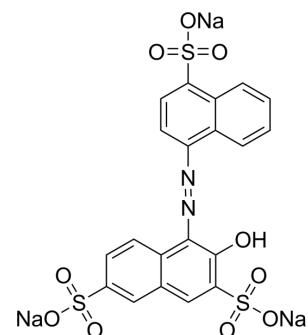


Amaranth

Cat. No.:	HY-D0307A
CAS No.:	915-67-3
Molecular Formula:	C ₂₀ H ₁₁ N ₂ Na ₃ O ₁₀ S ₃
Molecular Weight:	604.47
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 : 25 mg/mL (41.36 mM; Need ultrasonic)
H₂O : 6.67 mg/mL (11.03 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.6543 mL	8.2717 mL	16.5434 mL
5 mM	0.3309 mL	1.6543 mL	3.3087 mL
10 mM	0.1654 mL	0.8272 mL	1.6543 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Amaranth is a dark red to purple azo dye used as a food dye and to color cosmetics. Amaranth is an anionic dye. It can be applied to natural and synthetic fibers, leather, paper, and phenol-formaldehyde resins.

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

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