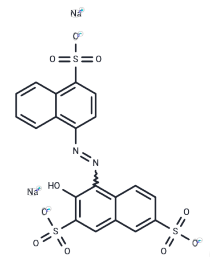


Amaranth

Chemical Properties

CAS No. :	915-67-3
Formula:	C ₂₀ H ₁₁ N ₂ Na ₃ O ₁₀ S ₃
Molecular Weight:	604.50
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Amaranth (Acid Red 27) as a potential component of lifestyle modification to improve cardiovascular risk profiles by modifying cardiovascular risk factors such as cholesterol, diabetes, and hypertension.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 23.57 mg/mL (38.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.65 mM), Sonication is recommended. 10% DMSO+90% Saline: 2.36 mg/mL (3.9 mM), Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6543 mL	8.2713 mL	16.5426 mL
5 mM	0.3309 mL	1.6543 mL	3.3085 mL
10 mM	0.1654 mL	0.8271 mL	1.6543 mL
50 mM	0.0331 mL	0.1654 mL	0.3309 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.

Reference

Zdeněk Chmelík , Michaela Šnejdrová , Michal Vrablík. Amaranth as a Potential Dietary Adjunct of Lifestyle Modification to Improve Cardiovascular Risk Profile. Nutr Res. 2019 Dec;72:36-45.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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