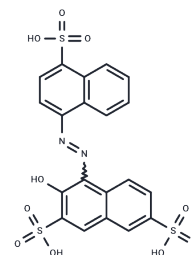


## Amaranth free acid

## Chemical Properties

CAS No. :	642-59-1
Formula:	C <sub>20</sub> H <sub>14</sub> N <sub>2</sub> O <sub>10</sub> S <sub>3</sub>
Molecular Weight:	538.53
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 free acid (Acid Red 27 free acid; Azorubin S free acid; FD & C Red Dye No. 2 free acid) serves as a versatile dye utilized across various fields. This dye is crucial in biological experiments for observing and analyzing cell structures, tracking biomolecules, evaluating cell functions, differentiating cell types, detecting biomolecules, studying tissue pathology, and monitoring microorganisms. Its usage extends from fundamental scientific research to clinical diagnostics. Additionally, Amaranth free acid is employed in traditional applications like textile dyeing and in innovative areas including functional textile processing, food pigments, and dye-sensitized solar cells.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8569 mL	9.2845 mL	18.5691 mL
5 mM	0.3714 mL	1.8569 mL	3.7138 mL
10 mM	0.1857 mL	0.9285 mL	1.8569 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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