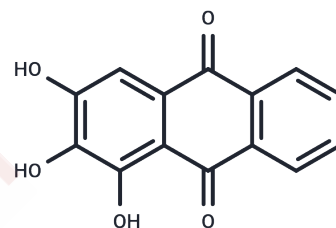


## Anthragallol

## Chemical Properties

CAS No. :	602-64-2
Formula:	C <sub>14</sub> H <sub>8</sub> O <sub>5</sub>
Molecular Weight:	256.21
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	Anthragallol (1,2,3-Trihydroxyanthraquinone) shows cytotoxicity by binding to DNA. Anthragallol can be used as an analytical reagent for the production of brown pickle colorants.
Targets(IC50)	Others,DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: 10.64 mg/mL (41.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 1.06 mg/mL (4.14 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1.06 mg/mL (4.14 mM),Solution. <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	3.903 mL	19.5152 mL	39.0305 mL
5 mM	0.7806 mL	3.903 mL	7.8061 mL
10 mM	0.3903 mL	1.9515 mL	3.903 mL
50 mM	0.0781 mL	0.3903 mL	0.7806 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

Gao Y, et, al. Spectroscopic studies on the interaction between anthragallol and DNA using of ethidium bromide as a fluorescence probe. Spectrochim Acta A Mol Biomol Spectrosc. 2015 Apr 15;141:239-43.

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