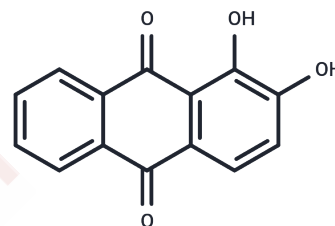


Alizarin

Chemical Properties

CAS No. :	72-48-0
Formula:	C ₁₄ H ₈ O ₄
Molecular Weight:	240.21
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	Alizarin (Mordant Red 11), a red dye derived from the roots of plants of the madder genus, inhibits P450 isoform CYP1A1(IC ₅₀ = 6.2 μM), CYP1A2 (IC ₅₀ =10.0 μM)and CYP1B1(IC ₅₀ = 2.7 μM).
Targets(IC ₅₀)	NF-κB,Akt,AMPK,Cytochromes P450,PI3K,VEGFR
In vitro	Within the bodies of poisoned animals, Alizarin has been shown to reduce the levels of hepatic mercapturic acid conjugates and serum alanine transaminase (ALT) levels.
In vivo	In rat liver microsomes, Alizarin can inhibit the oxidation of phenoxy radicals, superoxide anion radicals, and lipid peroxides.

Solubility Information

Solubility	DMSO: 31.6 mg/mL (131.55 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.163 mL	20.8151 mL	41.6302 mL
5 mM	0.8326 mL	4.163 mL	8.326 mL
10 mM	0.4163 mL	2.0815 mL	4.163 mL
50 mM	0.0833 mL	0.4163 mL	0.8326 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

Takahashi E, et al. Mutat Res, 2002, 508(1-2), 147-156.

Zhang J, et al. J Nutr Environ Med, 1997, 7(2), 79-89.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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