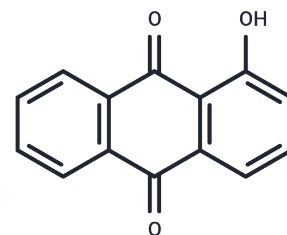


1-Hydroxyanthraquinone

Chemical Properties

CAS No. :	129-43-1
Formula:	C ₁₄ H ₈ O ₃
Molecular Weight:	224.21
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	1-Hydroxyanthraquinone is an anthraquinone that has been found in <i>Morinda officinalis</i> and has genotoxic and carcinogenic activities. 1-Hydroxyanthraquinone generates strong DNA repair response.
Targets(IC50)	DNA/RNA Synthesis
In vitro	1-Hydroxyanthraquinone (5 and 500 μ M) increases the percentage of isolated rat hepatocytes undergoing unscheduled DNA synthesis, indicating genotoxic activity[2].
In vivo	Dietary administration of 1-Hydroxyanthraquinone (1%) induces formation of cecum and colon adenocarcinomas, as well as hepatocellular carcinomas, in rats[2].

Solubility Information

Solubility	Chloroform: 30 mg/mL (133.8 mM),Sonication is recommended. DMSO: 3.93 mg/mL (17.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4601 mL	22.3005 mL	44.601 mL
5 mM	0.892 mL	4.4601 mL	8.9202 mL
10 mM	0.446 mL	2.2301 mL	4.4601 mL
50 mM	0.0892 mL	0.446 mL	0.892 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

Kawai K, et al. Genotoxicity in the hepatocyte/DNA repair test and toxicity to liver mitochondria of 1-hydroxyanthraquinone and several dihydroxyanthraquinones. Cell Biol Toxicol. 1986 Dec;2(4):457-67.

H Mori, et al. Carcinogenicity of naturally occurring 1-hydroxyanthraquinone in rats: induction of large bowel, liver and stomach neoplasms. Carcinogenesis. 1990 May;11(5):799-802.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481