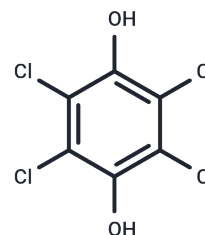


Tetrachlorohydroquinone

Chemical Properties

CAS No. :	87-87-6
Formula:	C ₆ H ₂ Cl ₄ O ₂
Molecular Weight:	247.89
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	Tetrachlorohydroquinone (TCHQ), a metabolite of the organochlorine biocide pentachlorophenol, is cytotoxic to RTL-W1 rainbow trout liver cells (EC ₅₀ = 1.55 μM in a neutral red assay). TCHQ increases production of reactive oxygen species (ROS), inhibits apoptosis, and induces loss of mitochondrial membrane potential and necrosis in splenocytes.
Targets(IC50)	Apoptosis,Others,Reactive Oxygen Species,Drug Metabolite,Necroptosis,ROS
In vivo	In vivo, TCHQ induces glutathione (GSH) depletion in mouse liver.

Solubility Information

Solubility	DMF: 30 mg/mL (121.02 mM),Sonication is recommended. Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/mL (2.02 mM),Sonication is recommended. DMSO: 30 mg/mL (121.02 mM),Sonication is recommended. Ethanol: 30 mg/mL (121.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (13.31 mM),Sonication is recommended. <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	4.034 mL	20.1702 mL	40.3405 mL
5 mM	0.8068 mL	4.034 mL	8.0681 mL
10 mM	0.4034 mL	2.017 mL	4.034 mL
50 mM	0.0807 mL	0.4034 mL	0.8068 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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