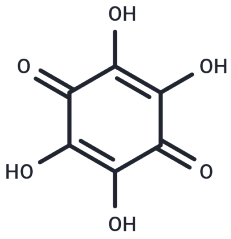
Data Sheet (Cat.No.T0223)

TargetMol

Tetrahydroxyquinone

Chemical Properties



CAS No. : 319-89-1

Formula: C6H4O6

Molecular Weight: 172.09

Storage: Keep away from direct sunlight
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	Tetrahydroxyquinone (Tetroquinone) is a molecule best known as a primitive anticataract drug, is also a highly redox active molecule that can take part in a redox cycle with semiquinone radicals, leading to the formation of reactive oxygen species (ROS).
Targets(IC50)	Apoptosis,Antioxidant,Reactive Oxygen Species,ROS

Solubility Information

Solubility	DMSO: 125 mg/mL (726.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (58.11 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (5.81 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8109 mL	29.0546 mL	58.1091 mL
5 mM	1.1622 mL	5.8109 mL	11.6218 mL
10 mM	0.5811 mL	2.9055 mL	5.8109 mL
50 mM	0.1162 mL	0.5811 mL	1.1622 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

Lou K, et al. J Am Chem Soc. 2010 Dec 15; 132(49):17635-41.