Data Sheet (Cat.No.T38585)

TargetMol

Tetrachlorocatechol

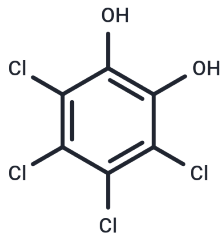
Chemical Properties

CAS No. : 1198-55-6

Formula: C6H2Cl4O2

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	Tetrachlorocatechol (TCC) is a chlorinated catechol compound that serves as a metabolite of pentachlorophenol. It is prominently generated during the chlorobleaching process in pulp production and is commonly detected in effluents from kraft pulp mills [1] [2]. TCC stands out as one of the most highly toxic chlorinated catechols.
Targets(IC50)	Others,Drug Metabolite

Solubility Information

Solubility	DMSO: 95 mg/mL (383.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (13.31 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	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.

Reference

G. Renner, et al. Acute toxicities of pentachlorophenol, pentachloroanisole, tetrachlorohydroquinone, tetrachlorocatechol, tetrachlororesorcinol, tetrachlorodimethoxybenzenes and tetrachlorobenzenediol diacetates administered to mice, Toxicological & Environmental Chemistry, 11:1, 37-50.
Mukherjee, et al. Evaluation of Acute Toxicity Levels and Ethological Responses Under Tetrachlorocatechol Exposure in Common Carp, Cyprinus carpio (Linnaeus). Proc Zool Soc 67, 108–113 (2014).