

4-Chlorocatechol

Chemical Properties

CAS No. :	2138-22-9
Formula:	C ₆ H ₅ ClO ₂
Molecular Weight:	144.556
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	4-Chlorocatechol, a significant degradation product of 4-chloro-2-aminophenol (4C2AP), serves as a substrate for both catechol 1,2-dioxygenases and chlorocatechol dioxygenase [1] [2].
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50.00 mg/mL (345.89 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: 2.00 mg/mL (13.84 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	6.9175 mL	34.5877 mL	69.1754 mL
5 mM	1.3835 mL	6.9175 mL	13.8351 mL
10 mM	0.6918 mL	3.4588 mL	6.9175 mL
50 mM	0.1384 mL	0.6918 mL	1.3835 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

Pankaj Kumar Arora, et al. Novel degradation pathway of 4-chloro-2-aminophenol via 4-chlorocatechol in Burkholderia sp. RKJ 800. Environ Sci Pollut Res Int. 2014 Feb;21(3):2298-2304.

Raffaella Caglio, et al. Fine-tuning of catalytic properties of catechol 1,2-dioxygenase by active site tailoring. Chembiochem. 2009 Apr 17;10(6):1015-24.

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