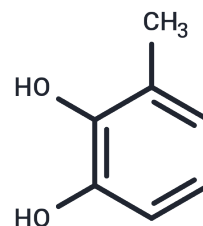


3-Methylcatechol

Chemical Properties

CAS No. :	488-17-5
Formula:	C7H8O2
Molecular Weight:	124.14
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	3-Methylcatechol (2,3-Toluenediol) is an active biochemical.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 30 mg/mL (241.66 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 mg/mL (16.11 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	8.0554 mL	40.2771 mL	80.5542 mL
5 mM	1.6111 mL	8.0554 mL	16.1108 mL
10 mM	0.8055 mL	4.0277 mL	8.0554 mL
50 mM	0.1611 mL	0.8055 mL	1.6111 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

Hüsken, L., Beeftink, R., de Bont, J., & Wery, J. (2001). High-rate 3-methylcatechol production in *Pseudomonas putida* strains by means of a novel expression system. *Applied Microbiology And Biotechnology*, 55(5), 571-577. doi: 10.1007/s002530000566

Prakash, D., Pandey, J., Tiwary, B., & Jain, R. (2010). A process optimization for bio-catalytic production of substituted catechols (3-nitrocatechol and 3-methylcatechol. *BMC Biotechnology*, 10(1), 49. doi: 10.1186/1472-6750-10-49

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