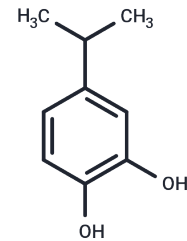


## 4-Isopropylcatechol

## Chemical Properties

CAS No. :	2138-43-4
Formula:	C <sub>9</sub> H <sub>12</sub> O <sub>2</sub>
Molecular Weight:	152.19
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-Isopropylcatechol is a potent depigmenting agent and is of use in the topical therapy of selected patients with hypermelanosis.
Targets(IC50)	Others, Tyrosinase
In vitro	4-isopropylcatechol (4-IPC), a potent, irreversible cutaneous depigmenting agent, on protein biosynthesis of malignant melanoma cells in mice was studied by examining the in vitro amino acid (leucine) incorporation into a microsome fraction in cell sap. The present study revealed that 4-IPC does not inhibit the protein biosynthesis of the cell-free system in mouse liver, but remarkably inhibits it in mouse melanoma cells, which contain a high level of tyrosinase. The enhanced inhibition was found also in the mouse liver cell-free system when tyrosinase was added. Air oxidation products of 4-IPC were not responsible for such inhibition[1].

## Solubility Information

Solubility	DMSO: 9 mg/mL (59.14 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: 1 mg/mL (6.57 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

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	1mg	5mg	10mg
1 mM	6.5707 mL	32.8537 mL	65.7073 mL
5 mM	1.3141 mL	6.5707 mL	13.1415 mL
10 mM	0.6571 mL	3.2854 mL	6.5707 mL
50 mM	0.1314 mL	0.6571 mL	1.3141 mL

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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

Sugano H , Sugano I , Jimbow K , et al. Tyrosinase mediated inhibition of in vitro leucine incorporation into mouse melanoma by 4 isopropylcatechol[J]. Cancer Research, 1975, 35(11 Pt 1):3126.

Bleehen S S . The treatment of hypermelanosis with 4-isopropylcatechol[J]. British Journal of Dermatology, 1975.

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