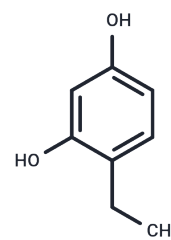


## 4-Ethylresorcinol

## Chemical Properties

CAS No. :	2896-60-8
Formula:	C <sub>8</sub> H <sub>10</sub> O <sub>2</sub>
Molecular Weight:	138.16
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	4-Ethylresorcinol has inhibitory activity against tyrosinase and acetylcholinesterase and can be used in biochemical experiments and drug synthesis.
Targets(IC50)	Cholinesterase (ChE),PKA,Tyrosinase
In vitro	<b>Methods:</b> Melan-a cells were treated with 4-Ethylresorcinol (10μM, 40μM, 5 days) to observe its effect on PKA activity. <b>Results:</b> At high concentrations, 4-Ethylresorcinol can reduce PKA activity by about 20%. [2]

## Solubility Information

Solubility	DMSO: 80 mg/mL (579.04 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 (23.89 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	7.238 mL	36.1899 mL	72.3798 mL
5 mM	1.4476 mL	7.238 mL	14.476 mL
10 mM	0.7238 mL	3.619 mL	7.238 mL
50 mM	0.1448 mL	0.7238 mL	1.4476 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

Jimenez AG, et, al. Characterization of the action of tyrosinase on resorcinols. *Bioorg Med Chem.* 2016 Sep 15;24(18):4434-4443.

Lam RYY, et, al. Mechanistic studies of anti-hyperpigmentary compounds: elucidating their inhibitory and regulatory actions. *Int J Mol Sci.* 2014 Aug 21;15(8):14649-68.

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