

Benzyl alcohol

Chemical Properties

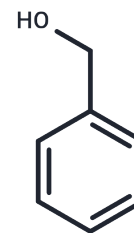
CAS No. : 100-51-6

Formula: C₇H₈O

Molecular Weight: 108.14

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Benzyl alcohol (Benzenemethanol), a colorless liquid, is an aromatic alcohol with a mild pleasant aromatic odor.
Targets(IC50)	Cytochromes P450, Dehydrogenase, TLR
In vitro	Benzyl alcohol up to 50 mM affects primarily the inner leaflet of the red blood cell membrane and that higher concentrations affect both leaflets. These increases in membrane fluidity are not associated with changes in membrane viscoelasticity[2].

Solubility Information

Solubility	DMSO: 257.5 mg/mL (2381.17 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (92.47 mM), Solution. 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (23.12 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	9.2473 mL	46.2364 mL	92.4727 mL
5 mM	1.8495 mL	9.2473 mL	18.4945 mL
10 mM	0.9247 mL	4.6236 mL	9.2473 mL
50 mM	0.1849 mL	0.9247 mL	1.8495 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

McCloskey SE, et al. J Pharm Sci. 1986, 75(7):702-705.

Chabanel A, et al. Biochim Biophys Acta. 1985, 816(1):142-152.

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