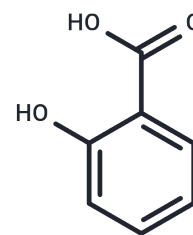


Salicylic acid

Chemical Properties

CAS No. :	69-72-7
Formula:	C7H6O3
Molecular Weight:	138.12
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	Salicylic acid (2-Hydroxybenzoic acid), a natural compound extracted from Willow bark, is an anti-inflammatory inhibitor of activity cyclooxygenase.
Targets(IC50)	Apoptosis,Mitophagy,Endogenous Metabolite,Autophagy,COX
In vitro	Salicylic acid (SA) is a phenolic phytohormone involved in plant defence against pathogens. It significantly stimulated PON1 activity in a concentration dependent manner[3].
In vivo	Although oral SA (5.5 mg/kg body weight) during the Hg(0) exposure did not reduce the Hg levels in these organs, it effectively counteracted the Hg(0)-induced growth inhibition, and improved the behavioral performance, accompanied by a series of ameliorations in the antioxidative defense and anti-inflammatory response[2].

Solubility Information

Solubility	DMSO: 141 mg/mL (1020.85 mM),Sonication is recommended. H2O: 1 mg/mL (7.24 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: 4 mg/mL (28.96 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	7.2401 mL	36.2004 mL	72.4008 mL
5 mM	1.448 mL	7.2401 mL	14.4802 mL
10 mM	0.724 mL	3.620 mL	7.2401 mL
50 mM	0.1448 mL	0.724 mL	1.448 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

Mitchell JA, et al. Mol Pharmacol. 1997, 51(6):907-912.

Ma C, et al. Inhal Toxicol. 2013, 25(7):398-404.

Mouhamed, et al. J Drug Metab Toxicol. 2013, 4:2.

Leslie CA, et al. Plant Physiol. 1988, 88(3):833-837.

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