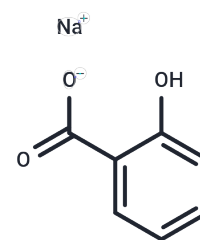


## Sodium salicylate

## Chemical Properties

CAS No. :	54-21-7
Formula:	C7H5NaO3
Molecular Weight:	160.11
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	Sodium salicylate (2-Hydroxybenzoic acid sodium salt), a metabolite of acetylsalicylic acid, can inhibit NF-κB and reduce oxidative stress.
Targets(IC50)	Apoptosis,NF-κB,Endogenous Metabolite,Autophagy,COX,S6 Kinase
In vitro	Sodium salicylate acts as non-steroidal anti-inflammatory drug (NSAID), and induces apoptosis in cancer cells and also necrosis. Sodium salicylate inhibits the activation of NF-kappa B, and also inhibits NF-kappa B-dependent transcription from the Ig kappa enhancer and the human immunodeficiency virus (HIV) long terminal repeat (LTR) in transfected T cells. [1] Sodium salicylate also induces apoptosis via p38 MAPK and inhibits TNF-induced JNK/stress-activated protein kinase activation. [2]

## Solubility Information

Solubility	DMSO: 166.67 mg/mL (1040.97 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H2O: 29 mg/mL (181.13 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 (12.49 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	6.2457 mL	31.2285 mL	62.4571 mL
5 mM	1.2491 mL	6.2457 mL	12.4914 mL
10 mM	0.6246 mL	3.1229 mL	6.2457 mL
50 mM	0.1249 mL	0.6246 mL	1.2491 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

Kopp E, et al. Science, 1994, 265(5174), 956-959.

Schwenger P, et al. Proc Natl Acad Sci U S A, 1997, 94(7), 2869-2873.

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