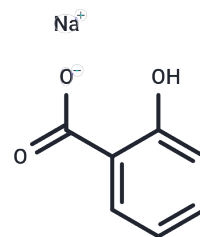


Sodium salicylate

Chemical Properties

CAS No. :	54-21-7
Formula:	C ₇ H ₅ NaO ₃
Molecular Weight:	160.11
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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,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: 50 mg/mL (312.29 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: 29 mg/mL (181.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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

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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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