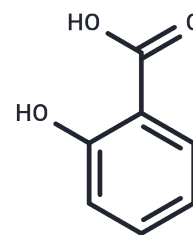


## Salicylic acid

## Chemical Properties

CAS No. :	69-72-7
Formula:	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>
Molecular Weight:	138.12
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## 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: 55 mg/mL (398.2 mM),Sonication is recommended. H <sub>2</sub> O: 1 mg/mL (7.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## 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.

### 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481