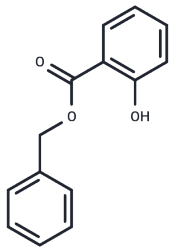
# Data Sheet (Cat.No.T60290)

TargetMol

## Benzyl salicylate

### Chemical Properties




CAS No. : 118-58-1

Formula: C14H12O3

Molecular Weight: 228.24

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 | Benzyl salicylate (NSC 6647), a salicylic acid derivative, is protective against cisplatin-induced apoptosis in LLC-PK1 cells and also inhibits LPS-induced NO production. |
| Targets(IC50) | Apoptosis,ERK,NO Synthase,JNK,p38 MAPK |
| In vitro | In human breast cancer cell lines MCF-7 and T47D, Benzyl salicylate ($10^{-5}$–$10^{-7}$M, 72h) significantly increased cell viability, indicating estrogen-like activity. Benzyl salicylate also enhanced estrogen response element (ERE)-driven reporter gene activity and upregulated the estrogen target gene pS2, effects that were antagonized by the antiestrogen ICI 182,780[1]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 80 mg/mL (350.51 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (14.46 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 4.3814 mL | 21.9068 mL | 43.8135 mL |
| 5 mM | 0.8763 mL | 4.3814 mL | 8.7627 mL |
| 10 mM | 0.4381 mL | 2.1907 mL | 4.3814 mL |
| 50 mM | 0.0876 mL | 0.4381 mL | 0.8763 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

Lee D, Lee SR, Kang KS, Kim KH. Benzyl salicylate from the stems and stem barks of Cornus walteri as a nephroprotective agent against cisplatin-induced apoptotic cell death in LLC-PK1 cells. RSC Adv. 2020 Feb 5;10 (10):5777-5784.