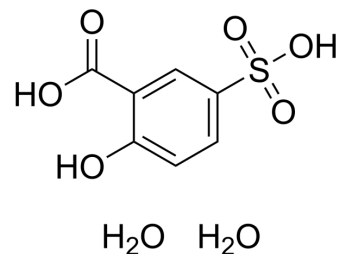


## 5-Sulfosalicylic acid dihydrate

Cat. No.:	HY-B0812
CAS No.:	5965-83-3
Molecular Formula:	C <sub>7</sub> H <sub>10</sub> O <sub>8</sub> S
Molecular Weight:	254.21
Target:	Others
Pathway:	Others
Storage:	Powder    -20°C    3 years 4°C    2 years In solvent   -80°C    6 months -20°C    1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (393.38 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		3.9338 mL	19.6688 mL	39.3376 mL
		5 mM		0.7868 mL	3.9338 mL	7.8675 mL
		10 mM		0.3934 mL	1.9669 mL	3.9338 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	5-Sulfosalicylic acid dihydrate is a sulfonated salicylic acid derivative. 5-Sulfosalicylic acid dihydrate is effective against the breast cancer cell line, MCF-7, with less toxicity <sup>[1]</sup> . 5-Sulfosalicylic acid dihydrate has antioxidant activities <sup>[2]</sup> .
In Vitro	5-Sulfosalicylic acid dihydrate (0.5-4 mM, 24 h) shows a reduction in the viability of MCF-7 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>

Cell Line:	MCF-7 and HUVEC cells
Concentration:	0.5, 1, 2, 4 mM
Incubation Time:	24 hours
Result:	Showed the viability of 63.3% and 70.4% in MCF-7 and HUVEC control cells respectively at 1 mM 5-sulfosalicylic acid.

## REFERENCES

- [1]. Özsoy M, et al. A protein-sulfosalicylic acid/boswellic acids @metal-organic framework nanocomposite as anticancer drug delivery system. Colloids Surf B Biointerfaces. 2021 Aug;204:111788.
- [2]. Ezhilmathi K, et al. Effect of 5-sulfosalicylic acid on antioxidant activity in relation to vase life of Gladiolus cut flowers. Plant Growth Regulation, 2007, 51: 99-108.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA