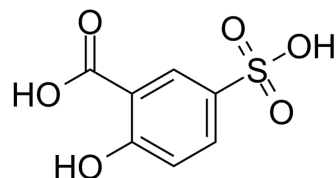


## 5-Sulfosalicylic acid

<b>Cat. No.:</b>	HY-B1785		
<b>CAS No.:</b>	97-05-2		
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>6</sub> O <sub>6</sub> S		
<b>Molecular Weight:</b>	218.18		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (1145.84 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.5834 mL	22.9169 mL	45.8337 mL
		5 mM	0.9167 mL	4.5834 mL	9.1667 mL
10 mM		0.4583 mL	2.2917 mL	4.5834 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (9.53 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.53 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (9.53 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	5-Sulfosalicylic acid is a sulfonated salicylic acid derivative. 5-Sulfosalicylic acid is effective against the breast cancer cell lines, with less toxicity <sup>[1]</sup> . 5-Sulfosalicylic acid has antioxidant activities <sup>[2]</sup> .
<b>In Vitro</b>	5-Sulfosalicylic acid (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]. Müntehta Özsoy, 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]. K. Ezhilmathi, et al. Effect of 5-sulfosalicylic acid on antioxidant activity in relation to vase life of *Gladiolus* cut flowers. *Plant Growth Regul* 51, 99 (2007).

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

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