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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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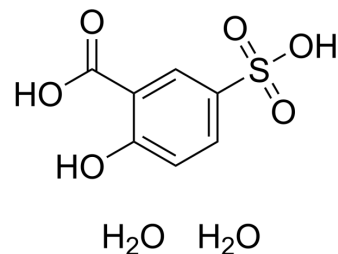
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5-Sulfosalicylic acid dihydrate

Cat. No.:	HY-B0812		
CAS No.:	5965-83-3		
Molecular Formula:	C ₇ H ₁₀ O ₈ 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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	<ol style="list-style-type: none"> 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 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 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 ^[1] . 5-Sulfosalicylic acid dihydrate has antioxidant activities ^[2] .
In Vitro	5-Sulfosalicylic acid dihydrate (0.5-4 mM, 24 h) shows a reduction in the viability of MCF-7 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]

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.

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