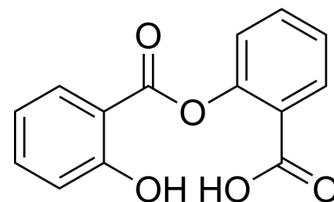


Salsalate

Cat. No.:	HY-B1245		
CAS No.:	552-94-3		
Molecular Formula:	C ₁₄ H ₁₀ O ₅		
Molecular Weight:	258.23		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (387.25 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		3.8725 mL	19.3626 mL	38.7252 mL
	5 mM		0.7745 mL	3.8725 mL	7.7450 mL
	10 mM		0.3873 mL	1.9363 mL	3.8725 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Salsalate, a non-acetylated salicylate, is an effective antirheumatic agent that bypasses gastric absorption and also avoids cyclooxygenase inhibition. Salsalate has anti-inflammatory activity and reduces glucose levels, insulin resistance, and cytokine expression. Salsalate can be used in the research of type 2 diabetes^{[1][2]}.

CUSTOMER VALIDATION

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- Cell Mol Bioeng. 2022.

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REFERENCES

- [1]. Murthy SN, et al. Effects of salsalate therapy on recovery from vascular injury in female Zucker fatty rats. *Diabetes*. 2010;59(12):3240-3246.
- [2]. Scheiman JM, et al. Gastroduodenal mucosal damage with salsalate versus aspirin: results of experimental models and endoscopic studies in humans. *Semin Arthritis Rheum*. 1990;20(2):121-127.
- [3]. González F, et al. Salicylate administration suppresses the inflammatory response to nutrients and improves ovarian function in polycystic ovary syndrome. *Am J Physiol Endocrinol Metab*. 2020;319(4):E744-E752.
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Caution: Product has not been fully validated for medical applications. For research use only.

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