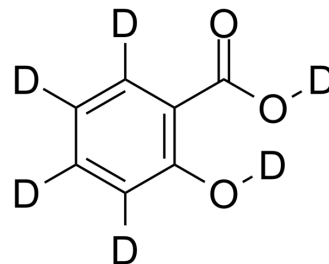


## Salicylic acid-d<sub>6</sub>

Cat. No.:	HY-B0167S	
CAS No.:	285979-87-5	
Molecular Formula:	C <sub>7</sub> D <sub>6</sub> O <sub>3</sub>	
Molecular Weight:	144.16	
Target:	COX; Autophagy; Mitophagy; Apoptosis	
Pathway:	Immunology/Inflammation; Autophagy; Apoptosis	
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 : 250 mg/mL (1734.18 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	6.9367 mL	34.6837 mL	69.3674 mL
	5 mM	1.3873 mL	6.9367 mL	13.8735 mL
	10 mM	0.6937 mL	3.4684 mL	6.9367 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: ≥ 2.08 mg/mL (14.43 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (14.43 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (14.43 mM); Clear solution			

### BIOLOGICAL ACTIVITY

Description	Salicylic acid-d <sub>6</sub> is a deuterium labeled Salicylic acid. Salicylic acid inhibits cyclo-oxygenase-2 (COX-2) activity independently of transcription factor (NF-κB) activation[1].			
IC <sub>50</sub> & Target	COX-2	Autophagy	Mitophagy	Apoptosis

### REFERENCES

---

[1]. Mitchell JA, et al. Sodium salicylate inhibits cyclo-oxygenase-2 activity independently of transcription factor (nuclear factor kappaB) activation: role of arachidonic acid. Mol Pharmacol. 1997 Jun;51(6):907-12.

---

**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](mailto:tech@MedChemExpress.com)

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