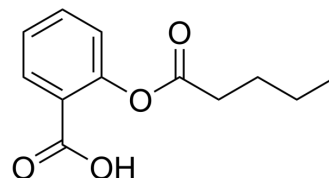


## Valeryl salicylate

Cat. No.:	HY-128473	
CAS No.:	64206-54-8	
Molecular Formula:	C <sub>12</sub> H <sub>14</sub> O <sub>4</sub>	
Molecular Weight:	222.24	
Target:	COX	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Valeryl salicylate is a potent and irreversible cyclooxygenase-1 (COX-1) inhibitor. Valeryl salicylate shows anti-inflammatory effect <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	COX-1	
<b>In Vivo</b>	Valeryl salicylate (3, 10, 30 mg/kg; i.p.) shows anti-inflammatory effect in arachidonic acid (HY-109590)-induced ear oedema and Carrageenan (HY-125474)-induced paw oedema <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	25-30g, Swiss male mice (arachidonic acid induces Ear oedema) <sup>[1]</sup>
	Dosage:	1.5, 4.5, 15, 45 µg per ear
	Administration:	
	Result:	Showed the anti-inflammatory effect of topical administration and resulted in significant inhibition of the ear oedema of 28, 36, 40, and 58% at 1.5, 4.5, 15, 45 µg per ear.
	Animal Model:	25-30g, Swiss male mice (Carrageenan-induced paw oedema) <sup>[1]</sup>
	Dosage:	3, 10, 30 mg/kg
	Administration:	i.p.
	Result:	Promoted a significant inhibition of 43.3, 53.3 and 66.6% at 3, 10, 30 mg/kg, respectively.

### REFERENCES

[1]. Siqueira-Junior JM, et al. Effects of valeryl salicylate, a COX-1 inhibitor, on models of acute inflammation in mice. Pharmacol Res. 2003 Nov;48(5):437-43.

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**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