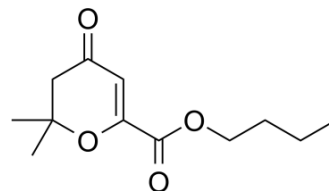


Butopyronoxyl

Cat. No.:	HY-B1575
CAS No.:	532-34-3
Molecular Formula:	C ₁₂ H ₁₈ O ₄
Molecular Weight:	226.27
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (441.95 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.4195 mL	22.0975 mL	44.1950 mL
		5 mM	0.8839 mL	4.4195 mL	8.8390 mL
	10 mM	0.4419 mL	2.2097 mL	4.4195 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: ≥ 2.5 mg/mL (11.05 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.05 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.05 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Butopyronoxyl is an insect repellent that can be mainly used to repel mosquitoes ^{[1][2]} .
In Vitro	Indalone does decrease the attraction of <i>A. variegatum</i> to the pheromone and induces repulsion of <i>A. variegatum</i> when presented on its own in the air stream ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. C McMahon, et al. In vitro assays for repellents and deterrents for ticks: differing effects of products when tested with attractant or arrestment stimuli. *Med Vet Entomol.* 2003 Dec;17(4):370-8.

[2]. L C Rutledge, et al. Evaluation of the laboratory mouse model for screening topical mosquito repellents. *J Am Mosq Control Assoc.* 1994 Dec;10(4):565-71.

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

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