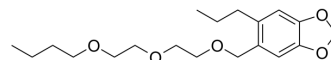


Piperonyl butoxide

Cat. No.:	HY-B1198
CAS No.:	51-03-6
Molecular Formula:	C ₁₉ H ₃₀ O ₅
Molecular Weight:	338.44
Target:	Parasite
Pathway:	Anti-infection
Storage:	<div>Pure form</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (295.47 mM; Need ultrasonic)
 Ethanol : 100 mg/mL (295.47 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.9547 mL	14.7737 mL	29.5473 mL
	5 mM		0.5909 mL	2.9547 mL	5.9095 mL
	10 mM		0.2955 mL	1.4774 mL	2.9547 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 (7.39 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Piperonyl butoxide is a semisynthetic derivative of safrole used as a component of pesticide formulations. It is a synergist, despite having no pesticidal activity of its own, it enhances the potency of certain pesticides such as Carbamates, Pyrethrins, Pyrethroids, and Rotenone.

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

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