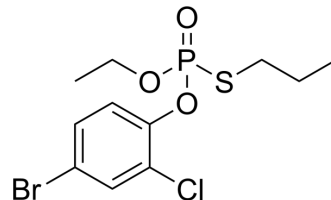


## Profenofos

Cat. No.:	HY-B0832
CAS No.:	41198-08-7
Molecular Formula:	C <sub>11</sub> H <sub>15</sub> BrClO <sub>3</sub> PS
Molecular Weight:	373.63
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (133.82 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.6764 mL	13.3822 mL	26.7644 mL
				5 mM	0.5353 mL	2.6764 mL	5.3529 mL
				10 mM	0.2676 mL	1.3382 mL	2.6764 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 (6.69 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.69 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.69 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Profenofos is an insecticida used on field crops, vegetables, and fruit crops. Profenofos is an acetylcholinesterase (AChE) inhibitor, with neurotoxicity <sup>[1]</sup> .
IC <sub>50</sub> & Target	AChE

### REFERENCES

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[1]. Madhulika Kushwaha, et al. Kushwaha, M., et al.. Profenofos, an Acetylcholinesterase-Inhibiting Organophosphorus Pesticide: A Short Review of Its Usage, Toxicity, and Biodegradation. J Environ Qual.2016 Sep;45(5):1478-1489.

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

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