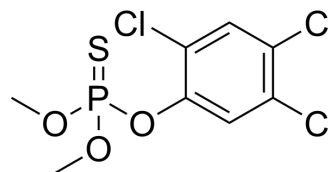


Fenclorphos

Cat. No.:	HY-B1093		
CAS No.:	299-84-3		
Molecular Formula:	C ₈ H ₈ Cl ₃ O ₃ PS		
Molecular Weight:	321.55		
Target:	Parasite; Cholinesterase (ChE)		
Pathway:	Anti-infection; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (310.99 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.1099 mL	15.5497 mL	31.0994 mL
		5 mM	0.6220 mL	3.1099 mL	6.2199 mL
10 mM		0.3110 mL	1.5550 mL	3.1099 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 (7.77 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.77 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.77 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Fenclorphos, an organophosphate, is an insecticide. Fenclorphos is an inhibitor of the enzyme acetylcholinesterase (AChE). Fenclorphos is able to cause mitochondrial dysfunction ^{[1][2]} .
IC ₅₀ & Target	AChE

REFERENCES

[1]. Nafstad I, et, al. Teratogenic effects of the organophosphorus compound fenclorphan in rabbits. Acta Vet Scand. 1983;24(3):295-304.

[2]. Rimkus SA, et, al. A pharmacological screen for compounds that rescue the developmental lethality of a Drosophila ATM mutant. PLoS One. 2018 Jan 16;13(1):e0190821.

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

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