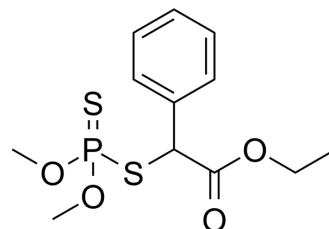


Phenthoate

Cat. No.:	HY-118165	
CAS No.:	2597-03-7	
Molecular Formula:	C ₁₂ H ₁₇ O ₄ PS ₂	
Molecular Weight:	320.36	
Target:	Cholinesterase (ChE)	
Pathway:	Neuronal Signaling	
Storage:	Pure form	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (780.37 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.1215 mL	15.6074 mL	31.2149 mL
5 mM	0.6243 mL	3.1215 mL	6.2430 mL
10 mM	0.3121 mL	1.5607 mL	3.1215 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Phenthoate is an organophosphorus pesticide having low toxicity in animals. Phenthoate is also a AChE inhibitor^{[1][2]}.

REFERENCES

[1]. Akina Nara, et al. Fatal Poisoning With Both Dichlorvos and Phenthoate. J Forensic Sci. 2018 Nov;63(6):1928-1931.

[2]. Fei Ding, et al. Elucidating the Potential Neurotoxicity of Chiral Phenthoate: Molecular Insight From Experimental and Computational Studies. Chemosphere. 2020 Sep;255:127007.

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

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