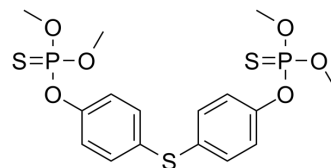


## Temefos

Cat. No.:	HY-B1120		
CAS No.:	3383-96-8		
Molecular Formula:	C <sub>16</sub> H <sub>20</sub> O <sub>6</sub> P <sub>2</sub> S <sub>3</sub>		
Molecular Weight:	466.47		
Target:	Parasite		
Pathway:	Anti-infection		
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 : 100 mg/mL (214.38 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.1438 mL	10.7188 mL	21.4376 mL
		5 mM		0.4288 mL	2.1438 mL	4.2875 mL
10 mM			0.2144 mL	1.0719 mL	2.1438 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 (5.36 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Temefos is an organophosphate larvicide, used to treat water infested with disease-carrying insects including mosquitoes, midges, and black fly larvae. Temefos affects the central nervous system through inhibition of cholinesterase, results in death before reaching the adult stage.
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### REFERENCES

[1]. Thirugnanam M, et al. Environmental impact of mosquito pesticides: influence of temefos on the brain acetylcholinesterase of killifish. Environ Physiol Biochem. 1975;5(6):451-9.

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[2]. Wirth MC, et al. Selection and characterization of temephos resistance in a population of *Aedes aegypti* from Tortola, British Virgin Islands. *J Am Mosq Control Assoc.* 1999 Sep;15(3):315-20.

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

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