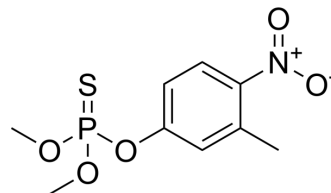


Fenitrothion

| | |
|---------------------------|--|
| Cat. No.: | HY-B1885 |
| CAS No.: | 122-14-5 |
| Molecular Formula: | C ₉ H ₁₂ NO ₅ PS |
| Molecular Weight: | 277.23 |
| Target: | Parasite; Cholinesterase (ChE) |
| Pathway: | Anti-infection; Neuronal Signaling |
| Storage: | 4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen) |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|---|----------------------|-------------|-------------|-------------|--------------|
| In Vitro | Ethanol : 100 mg/mL (360.71 mM; Need ultrasonic) | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 1 mM | | 3.6071 mL | 18.0356 mL | 36.0711 mL |
| | | 5 mM | | 0.7214 mL | 3.6071 mL | 7.2142 mL |
| 10 mM | | 0.3607 mL | 1.8036 mL | 3.6071 mL | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution 2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Fenitrothion, one of the most widely used organophosphorus pesticides, is a cholinesterase inhibiting insecticide/acaricid. Fenitrothion is widely used, as a broad-spectrum insecticide, on cotton crops, vegetables crops, fruit crops, and field crops especially paddy. Fenitrothion leads to accumulation of nitrophenols ^{[1][2]} . |
| IC₅₀ & Target | Mite |

REFERENCES

[1]. Abdel-Ghany R, et al. Impact of Exposure to Fenitrothion on Vital Organs in Rats. J Toxicol. 2016;2016:5609734.

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

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