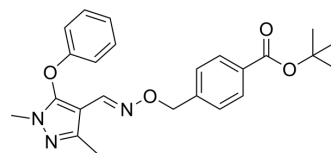


## Fenpyroximate

Cat. No.:	HY-B0825A
CAS No.:	111812-58-9
Molecular Formula:	C <sub>24</sub> H <sub>27</sub> N <sub>3</sub> O <sub>4</sub>
Molecular Weight:	421.49
Target:	Parasite; Mitochondrial Metabolism
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution</li> </ol>
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### BIOLOGICAL ACTIVITY

Description	<p>Fenpyroximate is an acaricide and insecticide against many mites and insect pests of agricultural crops and ornamentals. Fenpyroximate is also a strong inhibitor of bovine heart mitochondrial NADH-ubiquinone oxidoreductase (complex I), binds to the ND5 subunit<sup>[1][2]</sup>.</p>	
IC <sub>50</sub> & Target	Mite	Mite

### REFERENCES

[1]. Somayyeh Ghasemzadeh, et al. Demographic analysis of fenpyroximate and thiacloprid exposed predatory mite *Amblyseius swirskii* (Acari: Phytoseiidae). PLoS One. 2018 Nov 15;13(11):e0206030.

[2]. Yusuke Shiraishi, et al. Fenpyroximate binds to the interface between PSST and 49 kDa subunits in mitochondrial NADH-ubiquinone oxidoreductase. Biochemistry. 2012 Mar 6;51(9):1953-63.

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

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