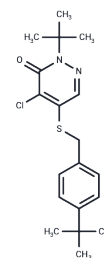


## Pyridaben

## Chemical Properties

CAS No. :	96489-71-3
Formula:	C <sub>19</sub> H <sub>25</sub> ClN <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	364.93
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Pyridaben is a METI acaricide that inhibits mitochondrial electron transport at complex I (METI; $K_i = 0.36$ nmol/mg protein in rat brain mitochondria).
Targets(IC <sub>50</sub> )	Calcium Channel, Parasite
In vivo	Pyridaben is toxic to rats when administered orally (LD <sub>50</sub> s = 570 and 1,100 for female and male rats, respectively) and via inhalation (LD <sub>50</sub> s = 0.62 and 0.66 mg/L for female and male rats, respectively).

## Solubility Information

Solubility	Ethanol: 57 mg/mL (156.19 mM), Sonication is recommended. DMSO: 55 mg/mL (150.71 mM), Sonication is recommended. H <sub>2</sub> O: Insoluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7403 mL	13.7013 mL	27.4025 mL
5 mM	0.5481 mL	2.7403 mL	5.4805 mL
10 mM	0.274 mL	1.3701 mL	2.7403 mL
50 mM	0.0548 mL	0.274 mL	0.5481 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Navarro A, et al. Effects of rotenone and pyridaben on complex I electron transfer and on mitochondrial nitric oxide synthase functional activity. *J Bioenerg Biomembr.* 2010 Oct;42(5):405-12.

Takahashi M, et al. Efficacy of pyridaben against three kinds of mites, *Cheyletus malaccensis*, *Dermatophagoides farinae* and *Tyrophagus putrescentiae*. *Medical Entomology and Zoology*, 1990, 41(3):257-260.

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