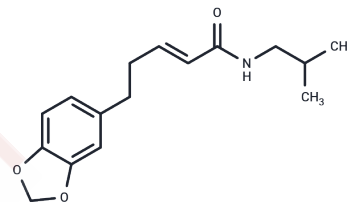


## 4,5-Dihydropiperlonguminine

## Chemical Properties

CAS No. :	23512-53-0
Formula:	C <sub>16</sub> H <sub>21</sub> NO <sub>3</sub>
Molecular Weight:	275.34
Storage:	Store at low temperature 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	4,5-Dihydropiperlonguminine (Dihydropiperlonguminine) is a small molecule compound isolated from the seeds of Piper tuberculatum Jacq with insecticidal and potentially analgesic activity.
Targets(IC50)	Parasite
In vivo	At a dose of 700 µg per insect, 4,5-DiHydropiperlonguminine exhibits a 100% mortality rate against the velvetbean caterpillar <i>Anticarsia gemmatalis</i> [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6319 mL	18.1594 mL	36.3187 mL
5 mM	0.7264 mL	3.6319 mL	7.2637 mL
10 mM	0.3632 mL	1.8159 mL	3.6319 mL
50 mM	0.0726 mL	0.3632 mL	0.7264 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

Navickiene HM, et al. Toxicity of extracts and isobutyl amides from Piper tuberculatum: potent compounds with potential for the control of the velvetbean caterpillar, *Anticarsia gemmatalis*. Pest Manag Sci. 2007 Apr;63(4):399-403.

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