

## Retrofractamide B

## Chemical Properties

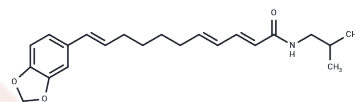
CAS No. : 54794-74-0

Formula: C<sub>22</sub>H<sub>29</sub>NO<sub>3</sub>

Molecular Weight: 355.41

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Retrofractamide B is a natural amide compound isolated from the fruits of Piper species, with an unsaturated fatty amide structure. It exhibits certain larvicidal activity against mosquitoes by interfering with the insect nervous system and is commonly used in pharmacological research and activity screening of natural products.
Targets(IC50)	Parasite

## Solubility Information

Solubility	DMSO: 20.00 mg/mL (56.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8137 mL	14.0683 mL	28.1365 mL
5 mM	0.5627 mL	2.8137 mL	5.6273 mL
10 mM	0.2814 mL	1.4068 mL	2.8137 mL
50 mM	0.0563 mL	0.2814 mL	0.5627 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

Park IK, et al. Larvicidal activity of isobutylamides identified in Piper nigrum fruits against three mosquito species. J Agric Food Chem. 2002 Mar 27;50(7):1866-70.

Makoto HATAKOSHI, et al. The Knockdown Activity and Nervous Effect of Piericide against American Cockroach, Periplaneta Americana. Applied Entomology and Zoology. 1984 Volume 19 Issue 3 Pages 288-292.

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