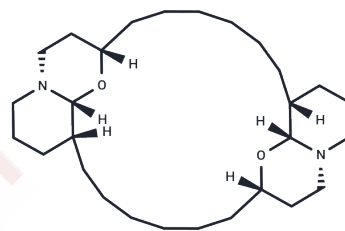


## Araguspongin B

## Chemical Properties

CAS No. :	123000-02-2
Formula:	C <sub>28</sub> H <sub>50</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	446.7
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	Xestospongins and araguspongins, marine natural products originally isolated from sponges in the Pacific basin, exhibit vasodilatory effects. Inositol phosphates (IP) serve as crucial signal transduction messengers, activating IP <sub>3</sub> receptors to facilitate Ca <sup>2+</sup> release from intracellular stores. Araguspongin B specifically hinders the calcium-releasing function of inositol 1,4,5-trisphosphate at the receptor level within cerebral microsomes, demonstrating an inhibition concentration (IC <sub>50</sub> ) of 0.6 μM. This potency places it nearly on par with xestospongin C in obstructing the IP <sub>3</sub> receptor's activity.
Targets(IC <sub>50</sub> )	Others, Calcium Channel

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2386 mL	11.1932 mL	22.3864 mL
5 mM	0.4477 mL	2.2386 mL	4.4773 mL
10 mM	0.2239 mL	1.1193 mL	2.2386 mL
50 mM	0.0448 mL	0.2239 mL	0.4477 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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