

Amakusamine

Chemical Properties

CAS No. : 2923661-84-9

Formula: C₉H₅Br₂NO₂

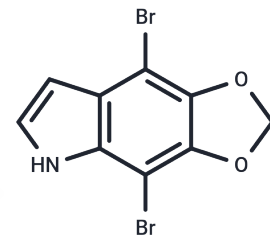
Molecular Weight: 318.95

Keep away from direct sunlight, Store at low temperature

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	Amakusamine is an indole alkaloid from the sponge of Psammocinia sp. It inhibits RANKL-induced isolation of multinucleated osteoclasts and inhibits RANKL-induced multinucleated osteoclasts.
Targets(IC50)	RANKL/RANK
In vitro	Amakusamine inhibited RANKL-induced differentiation of RAW264.7 cells into multinucleated osteoblasts with IC50 of 10.5 μM.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1353 mL	15.6764 mL	31.3529 mL
5 mM	0.6271 mL	3.1353 mL	6.2706 mL
10 mM	0.3135 mL	1.5676 mL	3.1353 mL
50 mM	0.0627 mL	0.3135 mL	0.6271 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

Maeyama Y, et al. Amakusamine from a Psammocinia sp. Sponge: Isolation, Synthesis, and SAR Study on the Inhibition of RANKL-Induced Formation of Multinuclear Osteoclasts. J Nat Prod. 2021 Oct 22;84(10):2738-2743.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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