

Continentalic acid

Chemical Properties

CAS No. : 19889-23-7

Formula: C₂₀H₃₀O₂

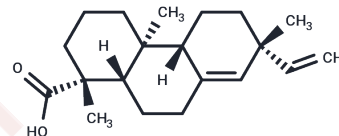
Molecular Weight: 302.45

Storage:

Keep away from direct sunlight, Keep away from moisture

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	Continentalic acid from <i>Aralia continentalis</i> exhibits minimum inhibitory concentrations (MICs) of approximately 8-16 µg/mL against <i>S. aureus</i> , including Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA), Methicillin-susceptible <i>Staphylococcus aureus</i> (MSSA), and standard strains.
Targets(IC50)	NOS, Antibacterial, COX, Prostaglandin Receptor
In vitro	Percentage of growth inhibition was evaluated by sulphorhodamine B assay. Purified Continentalic acid showed moderate cytotoxicity against all the cell lines used. In contrast, the extract exhibited significant concentration dependant cytotoxicity against A-549 (lung), THP-1 (leukemia) and MCF-7 (breast) cell lines[1]

Solubility Information

Solubility	DMSO: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3063 mL	16.5317 mL	33.0633 mL
5 mM	0.6613 mL	3.3063 mL	6.6127 mL
10 mM	0.3306 mL	1.6532 mL	3.3063 mL
50 mM	0.0661 mL	0.3306 mL	0.6613 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

In vitro Cytotoxicity of Methanol Extract from Aerial Parts of *Aralia cachemirica* and Purified Continentalic Acid.
Indian J Pharm Sci. 2015 Nov-Dec;77(6):792-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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