

## Cheilanthifoline

## Chemical Properties

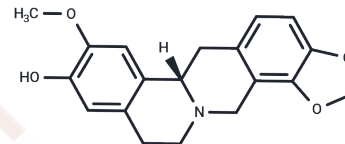
CAS No. : 483-44-3

Formula: C<sub>19</sub>H<sub>19</sub>NO<sub>4</sub>

Molecular Weight: 325.36

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	Cheilanthifoline has anti-osteoclastogenic property, it gives significant inhibitions on receptor activator of nuclear factor- $\kappa$ B ligand-induced differentiation of mouse bone marrow-derived macrophages into multinucleated osteoclasts.
Targets(IC50)	NF- $\kappa$ B,Parasite,Antifection
In vitro	A phytochemical investigation for the rhizome extract from <i>Sinomenium acutum</i> (Menispermaceae) resulted in the isolation of several active principles responsible for the anti-osteoclastogenic property of the extract, together with related isoquinoline alkaloids (1-13) including two new compounds, 1 and 2. Among isolated compounds, salutaridine (7), dauricumine (10), Cheilanthifoline (12), and dauriporphine (13) were observed to give significant inhibitions on receptor activator of nuclear factor- $\kappa$ B ligand-induced differentiation of mouse bone marrow-derived macrophages into multinucleated osteoclasts, respectively[1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0735 mL	15.3676 mL	30.7352 mL
5 mM	0.6147 mL	3.0735 mL	6.147 mL
10 mM	0.3074 mL	1.5368 mL	3.0735 mL
50 mM	0.0615 mL	0.3074 mL	0.6147 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

Anti-osteoclastogenic effects of isoquinoline alkaloids from the rhizome extract of *Sinomenium acutum*. Arch Pharm Res. 2016 May;39(5):713-20.

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