

Clemastanin B

Chemical Properties

CAS No.:	112747-98-5
Formula:	C32H44O16
Molecular Weight:	684.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Clemastanin B has antioxidant and anti-inflammatory activities, it exerts its anti-influenza activity by inhibiting the virus multiplication, prophylaxis and blocking the virus attachment.
Targets(IC ₅₀)	Influenza virus: None Immunology & Inflammation related: None
In vitro	The experiment consisted of four parts: therapeutic action, prophylaxis action, inhibition of virus attachment, and direct virucidal action. Cytopathic effect (CPE) and 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium (MTT) were used to assess antiviral activity. CB, epigoitrin, PEP and PEP ALK OA fractions from Banlangen (Radix Isatidis) extract significantly increased the viability of MDCK cells pre-infected with the virus compared with the virus control group in all the dilutions ($P < 0.01$). Pretreated with either pure compounds or chemical fractions of Banlangen (Radix Isatidis) extract in all the dilutions significantly improved the viability of MDCK cells ($P < 0.01$). The inhibition of virus absorption to the host cells by CB, epigoitrin and PEP was in a dose dependent manner.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.46 mL	7.302 mL	14.605 mL
5 mM	0.292 mL	1.46 mL	2.921 mL
10 mM	0.146 mL	0.73 mL	1.46 mL
50 mM	0.029 mL	0.146 mL	0.292 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Antiviral activities against influenza virus (FM1) of bioactive fractions and representative compounds extracted from Banlangen (Radix Isatidis). J Tradit Chin Med. 2016 Jun;36(3):369-76.

Inhibitors · Natural Compounds · Compound Libraries

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