

Isocucurbitacin B

Chemical Properties

CAS No.:	17278-28-3
Formula:	C ₃₂ H ₄₆ O ₈
Molecular Weight:	558.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Isocucurbitacin B has significantly activities against HeLa and HT-29 human cancer cells with IC ₅₀ values ranging from 0.93 to 9.73 μM.
Targets(IC ₅₀)	others: None
In vitro	Of them, compounds 2, 4, 9 and 12 were firstly isolated from the <i>Bolbostemma</i> genus. MTT assay revealed that compounds 1, 3 and 4 had significantly activities against HeLa and HT-29 human cancer cells with IC ₅₀ values ranging from 0.93 to 9.73 μM. It is worth mentioning that compound 4's activities against the two cell lines are 12- and 8-fold that of the positive control drug (5-Fu). Whereas, the cyclic bisdesmosides 5-9 exerted significantly activities on BGC-823, HeLa, HT-29 and MCF-7 cancer cells with IC ₅₀ values ranging from 1.30 to 15.64 μM. And 6's activities against the four cell lines are 6-, 3-, 10- and 16-fold that of 5-Fu and 8's activities against the four cell lines are 5-, 3-, 14- and 9-fold that of 5-Fu.

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	1.79 mL	8.949 mL	17.899 mL
5 mM	0.358 mL	1.79 mL	3.58 mL
10 mM	0.179 mL	0.895 mL	1.79 mL
50 mM	0.036 mL	0.179 mL	0.358 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. Bioassay-guided isolation and identification of cytotoxic compounds from *Bolbostemma paniculatum*. *J Ethnopharmacol.* 2015 Jul 1;169:18-23.

Inhibitors · Natural Compounds · Compound Libraries

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