

1beta-Hydroxytorilin

Chemical Properties

CAS No.:	509078-16-4
Formula:	C ₂₂ H ₃₂ O ₆
Molecular Weight:	392.49
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	1beta-Hydroxytorilin exhibits cytotoxicity against human A549, SK-OV-3, SK-MEL-2, and HCT15 tumor cells.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS:A new compound 2 and two known guaiane-type sesquiterpenoids were isolated from the methylene chloride-soluble fraction of the methanolic extract of the fruits of <i>Torilis japonica</i> (Umbelliferae) through repeated silica gel and Sephadex LH-20 column chromatography. Their chemical structures were elucidated as torilin (1), 11-acetoxy-8-angeloyloxy-1beta-hydroxy-4-guaien-3-one (1beta-Hydroxytorilin, 2), and 11-acetoxy-8-angeloyloxy-1alpha-hydroxy-4-guaien-3-one (1alpha-hydroxytorilin, 3) by spectroscopic analysis. CONCLUSIONS: Compounds 1-3 exhibited cytotoxicity against human A549, SK-OV-3, SK-MEL-2, and HCT15 tumor cells.

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	2.548 mL	12.739 mL	25.478 mL
5 mM	0.510 mL	2.548 mL	5.096 mL
10 mM	0.255 mL	1.274 mL	2.548 mL
50 mM	0.051 mL	0.255 mL	0.510 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. Guaiane sesquiterpenoids from *Torilis japonica* and their cytotoxic effects on human cancer cell lines. Arch Pharm Res. 2006 Feb;29(2):131-4.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481