

Triptoquinone B

Chemical Properties

CAS No.:	142937-50-6
Formula:	C ₂₀ H ₂₆ O ₄
Molecular Weight:	330.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Triptoquinone B is a novel interleukin-1 inhibitor, shows extremely potent inhibitory activities against interleukin-1 α and β releases for human peripheral mononuclear cells, it shows the significant immunosuppressive activity.
Targets(IC ₅₀)	IL Receptor: None
In vitro	To study the diterpenoids possessed immunosuppressive activity from <i>Tripterygium hypoglaucum</i> . METHODS AND RESULTS: The chemical constituents were isolated from the CHCl ₃ extracts of <i>T. hypoglaucum</i> by repeated column chromatography, including silica gel, Sephadex LH-20, and preparative HPLC. Their structures were elucidated on the basis of spectroscopic studies. The immunosuppressive activity of these compounds was tested using the lymphocyte transformation test. Compounds I-VI were identified as triptobenzene H (I), triptoquinone A (II), Triptoquinone B (III), triptoquinone H (IV), triptonediol (V), triptonoterpene (VI). CONCLUSIONS: Compound I-III are isolated from this medicinal plant for the first time and all the compounds show the significant immunosuppressive activity.

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	3.027 mL	15.133 mL	30.266 mL
5 mM	0.605 mL	3.027 mL	6.053 mL
10 mM	0.303 mL	1.513 mL	3.027 mL
50 mM	0.061 mL	0.303 mL	0.605 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. Diterpenoids possessed immunosuppressive activity from *Tripterygium hypoglaucum*. Chinese Traditional & Herbal Drugs, 2007, 38(4):493-6.

Inhibitors · Natural Compounds · Compound Libraries

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