

Taxagifine

Chemical Properties

CAS No.:	81489-69-2
Formula:	C37H44O13
Molecular Weight:	696.74
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Taxagifine shows cytotoxic activity toward HepG2 cells; it can suppress the superoxide generation induced by N-formyl-methionyl-leucyl-phenylalanine (fMLP) and arachidonic acid (AA) in a concentration-dependent manner.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: Twelve basic taxoids and 22 neutral taxoids were isolated from basic and polar neutral fractions of the extracts of needles and twigs of <i>Taxus cuspidata</i> . Among them, taxine NA-13, 3,11-cyclotaxinine NN-1, taxinine NN-6, 11(15[\rightarrow 1]abeo-taxinine NN-1, taxine NA-8, and taxine NA-4 were isolated first from natural sources by us. The cytotoxic activity of isolated compounds was evaluated against three human cell lines: normal human fibroblast cells (WI-38), malignant tumor cells induced from WI-38 (VA-13), and human liver tumor cells (HepG2). CONCLUSIONS: 7-Epitaxol, 7-epicephalomannine, taxinine NN-6, taxine NA-2, taxuspine H, and Taxagifine were active toward VA-13 cells and 7-epitaxol, 7-epicephalomannine, taxinine NN-1, 9,10-deacetyltaxinine, and Taxagifine were active toward HepG2 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	1.435 mL	7.176 mL	14.353 mL
5 mM	0.287 mL	1.435 mL	2.871 mL
10 mM	0.144 mL	0.718 mL	1.435 mL
50 mM	0.029 mL	0.144 mL	0.287 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. The polar neutral and basic taxoids isolated from needles and twigs of *Taxus cuspidata* and their biological activity Journal of Wood Science, 2008, 54(5):390-401.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481