

Tupichinol A

Chemical Properties

CAS No.:	497142-88-8
Formula:	C ₁₇ H ₁₈ O ₄
Molecular Weight:	286.32
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Tupichinol A is a natural product from <i>Tupistra chinensis</i> .
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: Seven new compounds, including three new flavans [Tupichinol A, tupichinol B, tupichinol C (1-3)], three new spirostanol sapogenins [tupichigenin D, tupichigenin E, tupichigenin F (4-6)], and one new pregnane genin [tupipregnenolone (7)], together with 18 known compounds, were isolated from the underground parts of <i>Tupistra chinensis</i> . The structures of the new compounds were elucidated by spectroscopic analysis and chemical evidence. The structures and relative stereochemistry of 1 and 9 were further confirmed by single-crystal X-ray crystallographic analysis. CONCLUSIONS: Compounds Delta(25(27))-pentrogenin, 10, and ranmogenin A showed 100%, 96%, and 80% inhibition, respectively, against human gastric tumor (NUGC) cells at a concentration of 50 microM. Delta(25(27))-pentrogenin showed 100% inhibition against human nasopharyngeal carcinoma (HONE-1) cells at a concentration of 50 microM.

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	3.493 mL	17.463 mL	34.926 mL
5 mM	0.699 mL	3.493 mL	6.985 mL
10 mM	0.349 mL	1.746 mL	3.493 mL
50 mM	0.070 mL	0.349 mL	0.699 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. New flavans, spirostanol sapogenins, and a pregnane genin from *Tupistra chinensis* and their cytotoxicity. *J Nat Prod.* 2003 Feb;66(2):161-8.

Inhibitors · Natural Compounds · Compound Libraries

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