

## 7alpha-Hydroxystigmasterol

### Chemical Properties

CAS No.:	64998-19-2
Formula:	C <sub>29</sub> H <sub>48</sub> O <sub>2</sub>
Molecular Weight:	428.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### Biological Description

Description	Standard reference
Targets(IC <sub>50</sub> )	Others: None
In vitro	<p><b>METHODS AND RESULTS:</b>Two new epoxy steroids, 5<math>\alpha</math>,8<math>\alpha</math>-epidioxy-22<math>\beta</math>,23<math>\beta</math>-epoxyergosta-6-en-3<math>\beta</math>-ol (1) and 5<math>\alpha</math>,8<math>\alpha</math>-epidioxy-22<math>\alpha</math>,23<math>\alpha</math>-epoxyergosta-6-en-3<math>\beta</math>-ol (2), and ten known steroids including (24R)-5<math>\alpha</math>,8<math>\alpha</math>-epidioxyergosta-6-en-3<math>\beta</math>-ol (3), (22E,24R)-5<math>\alpha</math>,8<math>\alpha</math>-epidioxyergosta-6,22-dien-3<math>\beta</math>-ol (4), (22E,24R)-5<math>\alpha</math>,8<math>\alpha</math>-epidioxyergosta-6,9(11),22-trien-3<math>\beta</math>-ol (5), <math>\beta</math>-sitosterol (6), sitost-5-en-3<math>\beta</math>-ol acetate (7), 7alpha-Hydroxystigmasterol (8), schleicheol 2 (9), (24R)-24-ethyl-5<math>\alpha</math>-cholestane-3<math>\beta</math>,5<math>\alpha</math>,6<math>\beta</math>-triol (10), 7alpha-Hydroxystigmasterol (11), and stigmasterol (12) were isolated from Helianthus tuberosus grown in Laizhou salinized land of coastal zone of Bohai Sea, China. The structures of these compounds were unambiguously established by 1D, 2D NMR and mass spectroscopic techniques. <b>CONCLUSIONS:</b> The new compounds 1 and 2 exhibited weak antibacterial activity and no antifungal activity.</p>

### 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	2.333 mL	11.663 mL	23.326 mL
5 mM	0.467 mL	2.333 mL	4.665 mL
10 mM	0.233 mL	1.166 mL	2.333 mL
50 mM	0.047 mL	0.233 mL	0.467 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

- Two new epoxysteroids from Helianthus tuberosus. Molecules. 2011 Oct 13;16(10):8646-53.

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