

Uvaol

Chemical Properties

CAS No.:	545-46-0
Formula:	C ₃₀ H ₅₀ O ₂
Molecular Weight:	442.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Uvaol has anti-inflammatory, anti-proliferative, and vasorelaxing activities.
Targets(IC ₅₀)	PPAR: None JNK: None
In vitro	The effect of erythrodiol and Uvaol on angiotensin II-induced proliferation was evaluated in cardiac myofibroblasts from adult rats in the presence or the absence of the inhibitors of PPAR-γ, GW9662 or JNK, SP600125. The effect on collagen levels induced by angiotensin II was evaluated in cardiac myofibroblasts and mouse heart. The presence of low doses of both triterpenes reduced the proliferation of cardiac myofibroblasts induced by angiotensin II. Pretreatment with GW9662 reversed the effect elicited by both triterpenes while SP600125 did not modify it. Both triterpenes at high doses produced an increase in annexin-V binding in the presence or absence of angiotensin II, which was reduced by either SP600125 or GW9662. Erythrodiol and Uvaol decreased collagen I and galectin 3 levels induced by angiotensin II in cardiac myofibroblasts. Finally, cardiac hypertrophy, ventricular remodeling, fibrosis, and increases in myocyte area and brain natriuretic peptide levels observed in angiotensin II-infused mice were reduced in triterpene-treated animals.

Solubility Information

Solubility	DMSO: 3 mg/mL (6.78 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.259 mL	11.294 mL	22.589 mL
5 mM	0.452 mL	2.259 mL	4.518 mL
10 mM	0.226 mL	1.129 mL	2.259 mL
50 mM	0.045 mL	0.226 mL	0.452 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. DIOL triterpenes block profibrotic effects of angiotensin II and protect from cardiac hypertrophy.PLoS One. 2012;7(7):e41545.

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