

1,3,5-Trihydroxy-4-prenylxanthone

Chemical Properties

CAS No.:	53377-61-0
Formula:	C ₁₈ H ₁₆ O ₅
Molecular Weight:	312.3
Appearance:	Yellow powder
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	1,3,5-Trihydroxy-4-prenylxanthone is a relatively potent inhibitor of phosphodiesterase type 5 (PDE5), with an IC ₅₀ value of 3.0 µM; it shows in vitro inhibitory activity against acetylcholinesterase (AChE) and butyrylcholinesterase (BChE), with IC ₅₀ values of 56.3plusmn;0.4 and 46.0plusmn;0.3 M, respectively. 1,3,5-Trihydroxy-4-prenylxanthone inhibits LPS-induced NF-κB and AP-1 activations by interfering with the posttranslational modification (phosphorylation and/or ubiquitinylation) of IRAK-1 in the cell membrane to impede TAK1-mediated activation of IKK and MAPKs signal transduction.
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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	3.202 mL	16.010 mL	32.020 mL
5 mM	0.640 mL	3.202 mL	6.404 mL
10 mM	0.320 mL	1.601 mL	3.202 mL
50 mM	0.064 mL	0.320 mL	0.640 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.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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