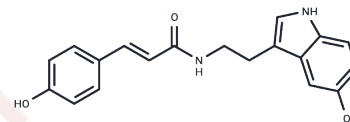


N-(p-Coumaroyl) serotonin

Chemical Properties

CAS No. :	68573-24-0
Formula:	C19H18N2O3
Molecular Weight:	322.36
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	N-(p-Coumaroyl) Serotonin, a polyphenol isolated from the seeds of safflower, exhibits antioxidant, cardioprotective effects after ischemia, and antitumor activity. It may improve vascular distensibility and reduce cardiovascular risk. N-(p-Coumaroyl) Serotonin ameliorates atherosclerosis and distensibility of the aortic wall in vivo, and is commonly used in atherosclerosis research.
Targets(IC50)	ERK,Caspase,PDGFR
In vitro	As reactive oxygen species (ROS) are implicated in the signaling of lipopolysaccharide (LPS), we examined whether CS has a suppressive effect on inflammatory cytokine generation from human monocytes in vitro. CS at 50-200 microM reduced tumor necrosis factor (TNF), interleukin-1 (IL-1), and IL-6 activities in the culture supernatants from LPS-stimulated human blood monocytes without cytotoxicity. ELISA assay revealed that the production of TNF-alpha, IL-1alpha, IL-1beta, and IL-6 was inhibited by CS. Northern blot analysis showed that LPS-induced expression of these cytokine mRNA in monocytes was suppressed by CS. NF-kappaB activation was also inhibited by CS[1]

Solubility Information

Solubility	DMSO: 66.67 mg/mL (206.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.2 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1021 mL	15.5106 mL	31.0212 mL
5 mM	0.6204 mL	3.1021 mL	6.2042 mL
10 mM	0.3102 mL	1.5511 mL	3.1021 mL
50 mM	0.062 mL	0.3102 mL	0.6204 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Serotonin derivative, N-(p-coumaroyl) serotonin, inhibits the production of TNF-alpha, IL-1alpha, IL-1beta, and IL-6 by endotoxin-stimulated human blood monocytes. J Interferon Cytokine Res. 1998 Jun;18(6):423-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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