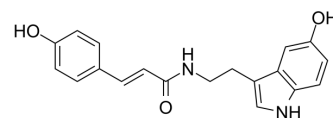


## N-(p-Coumaroyl) Serotonin

<b>Cat. No.:</b>	HY-129440		
<b>CAS No.:</b>	68573-24-0		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	322.36		
<b>Target:</b>	PDGFR		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (775.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (6.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (6.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (6.45 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

N-(p-Coumaroyl) Serotonin is a polyphenol isolated from the seeds of safflower and has antioxidative, anti-atherogenic and anti-inflammatory properties. N-(p-Coumaroyl) Serotonin inhibits PDGF-induced on phosphorylation of PDGF receptor and Ca<sup>2+</sup> release from sarcoplasmic reticulum<sup>[1]</sup>. N-(p-Coumaroyl) Serotonin ameliorates atherosclerosis and distensibility of the aortic wall in vivo and is usually used for the atherosclerosis research<sup>[2]</sup>.

### REFERENCES

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[1]. Tetsuya Takimoto, et al. Effect of N-(p-coumaroyl)serotonin and N-feruloylserotonin, major anti-atherogenic polyphenols in safflower seed, on vasodilation, proliferation and migration of vascular smooth muscle cells. Mol Nutr Food Res. 2011 Oct;55(10):1561-71.

[2]. Shin-ichiro Katsuda, et al. Safflower seed polyphenols (N-(p-coumaroyl)serotonin and N-feruloylserotonin) ameliorate atherosclerosis and distensibility of the aortic wall in Kurosawa and Kusanagi-hypercholesterolemic (KHC) rabbits. Hypertens Res

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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