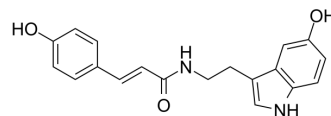


N-(p-Coumaroyl) Serotonin

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-129440 | | |
| CAS No.: | 68573-24-0 | | |
| Molecular Formula: | C ₁₉ H ₁₈ N ₂ O ₃ | | |
| Molecular Weight: | 322.36 | | |
| Target: | PDGFR | | |
| Pathway: | Protein Tyrosine Kinase/RTK | | |
| Storage: | 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)

| Concentration | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------|------|-----------|------------|------------|
| | | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 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 Ca²⁺ release from sarcoplasmic reticulum^[1]. N-(p-Coumaroyl) Serotonin ameliorates atherosclerosis and distensibility of the aortic wall in vivo and is usually used for the atherosclerosis research^[2].

REFERENCES

[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

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

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