Product Information

N-(p-Coumaroyl) Serotonin
Item No. 17797

CAS Registry No.: 68573-24-0
Formal Name: N-[2-(5-hydroxy-1H-indol-3-yl)ethyl]-3-(4-hydroxyphenyl)-2-propenamide
Synonym: NSC 369503
MF: C_{13}H_{18}N_{2}O_{3}
FW: 322.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_max = 212, 225, 294 nm

Laboratory Procedures

For long term storage, we suggest that N-(p-coumaroyl) serotonin be stored as supplied at -20°C. It should be stable for at least two years.

N-(p-Coumaroyl) serotonin is supplied as a crystalline solid. A stock solution may be made by dissolving the N-(p-coumaroyl) serotonin in the solvent of choice. N-(p-Coumaroyl) serotonin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of N-(p-coumaroyl) serotonin in ethanol and DMSO is approximately 10 mg/ml and approximately 20 mg/ml in DMF.

N-(p-Coumaroyl) serotonin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, N-(p-Coumaroyl) serotonin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. N-(p-Coumaroyl) serotonin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF-PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

N-(p-Coumaroyl) serotonin is an antioxidative phenolic naturally found in plants, including safflower seed and millet grain.\(^1,2\) It ameliorates atherosclerosis \textit{in vivo}, reducing lesion area in mice and rabbits.\(^3,4\) N-(p-Coumaroyl) serotonin also suppresses inflammatory cytokine generation by human monocytes, augments fibroblast proliferation, and promotes relaxation of vascular smooth muscle cells \textit{in vitro}.\(^5,6\)

References

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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