



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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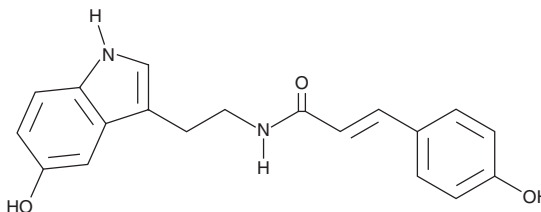
# Product Information



## 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<sub>19</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>  
**FW:** 322.4  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 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.<sup>1,2</sup> It ameliorates atherosclerosis *in vivo*, reducing lesion area in mice and rabbits.<sup>1,3</sup> N-(*p*-Coumaroyl) serotonin also suppresses inflammatory cytokine generation by human monocytes, augments fibroblast proliferation, and promotes relaxation of vascular smooth muscle cells *in vitro*.<sup>4-6</sup>

### References

1. Katsuda, S., Suzuki, K., Koyama, N., *et al.* *Hypertens. Res.* **32**(11), 944-949 (2009).
2. Watanabe, M. *J. Agric. Food Chem.* **47**(11), 4500-4505 (1999).
3. Koyama, N., Kuribayashi, K., Seki, T., *et al.* *J. Agric. Food Chem.* **54**(14), 4970-4976 (2015).
4. Kawashima, S., Hayashi, M., Takii, T., *et al.* *J. Interferon Cytokine Res.* **18**(6), 423-428 (1998).
5. Takii, T., Hayashi, M., Hiroma, H., *et al.* *J. Biochem.* **125**, 910-915 (1999).
6. Takimoto, T., Suzuki, K., Arisaka, H., *et al.* *Mol. Nutr. Food Res.* **55**(10), 1561-1571 (2011).

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

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