



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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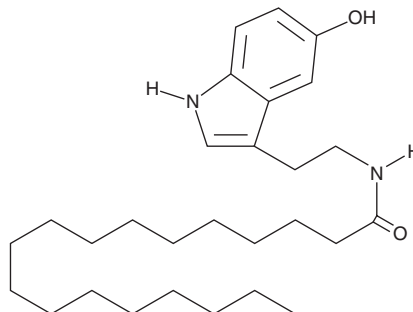
# Product Information



## Stearoyl Serotonin

Item No. 9000631

**CAS Registry No.:** 67964-87-8  
**Formal Name:** N-[2-(5-hydroxy-1H-indol-3-yl)ethyl]-octadecanamide  
**MF:** C<sub>28</sub>H<sub>46</sub>N<sub>2</sub>O<sub>2</sub>  
**FW:** 442.7  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

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

Stearoyl serotonin is supplied as a crystalline solid. A stock solution may be made by dissolving the stearoyl serotonin in the solvent of choice. Stearoyl 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 stearoyl serotonin in ethanol is approximately 2.5 mg/ml and approximately 20 mg/ml in DMSO and DMF.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Stearoyl serotonin is a hybrid molecule patterned after arachidonoyl serotonin (Item No. 70665). Arachidonoyl serotonin is a dual antagonist of fatty acid amide hydrolase (FAAH) and the transient receptor potential vanilloid 1 (TRPV1) channel, reducing both acute and chronic peripheral pain.<sup>1,2</sup> The effects of replacing the arachidonoyl portion with the saturated 18-carbon stearoyl moiety have not been studied. However, replacement of arachidonate with saturated 11- or 12-carbon fatty acids produces compounds that potently inhibit capsaicin-induced TRPV1 channel activation (IC<sub>50</sub> = 0.76 μM) without blocking FAAH-mediated hydrolysis of arachidonoyl ethanolamine (IC<sub>50</sub> > 50 μM).<sup>1</sup>

### References

- Ortar, G., Cascio, M.G., De Petrocellis, L., *et al.* New N-arachidonoylserotonin analogues with potential “dual” mechanism of action against pain. *J. Med. Chem.* **50**, 6554-6569 (2007).
- Maione, S., De Petrocellis, L., de Novellis, V., *et al.* Analgesic actions of N-arachidonoyl-serotonin, a fatty acid amide hydrolase inhibitor with antagonistic activity at vanilloid TRPV1 receptors. *Br. J. Pharmacol.* **150**, 766-781 (2007).

### Related Products

Arachidonoyl Serotonin - Item No. 70665 • Arachidonoyl Ethanolamide - Item No. 90050 • Oleoyl Serotonin - Item No. 9000629 • Palmitoyl Serotonin - Item No. 9000630 • Docosahexaenoyl Serotonin - Item No. 9000639 • Oleoyl Serotonin-d<sub>17</sub> - Item No. 9000694

**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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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 Material Safety Data Sheet, which has been sent *via* email to your institution.

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