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Zuschläge

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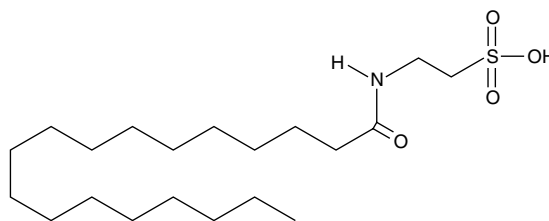
Product Information



N-Stearoyl Taurine

Item No. 10005610

CAS Registry No.: 63155-80-6
Formal Name: 2-[(1-oxooctadecyl)amino]-ethanesulfonic acid
MF: C₂₀H₄₁NO₄S
FW: 391.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methanol
UV/Vis.: λ_{max}: 202, 256 nm



Laboratory Procedures

For long term storage, we suggest that N-stearoyl taurine be stored as supplied at -20°C. It should be stable for at least one year.

N-Stearoyl taurine is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of N-stearoyl taurine in these solvents is at least 1.5 mg/ml.

N-Stearoyl taurine is sparingly soluble in aqueous buffers. Therefore, further dilutions of the organic solvent solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. 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.

Several different arachidonoyl amino acids, including N-arachidonoyl dopamine (NADA) and N-arachidonoyl serine (ARA-S), have been isolated and characterized from bovine brain.¹ During mass spectral lipidomic analysis of rat brain, a series of fatty acyl amides of a third amino acid, taurine, was discovered.² This novel class of compounds is present in kidney and activates members of the transient receptor potential (TRP) family of calcium channels.³ N-Stearoyl taurine is a prominent amino-acyl endocannabinoid isolated from rat brain during lipidomics profiling.³

References

1. Huang, S.M., Bisogno, T., Petros, T.J., *et al.* Identification of a new class of molecules, the arachidonoyl amino acids, and characterization of one member that inhibits pain. *J. Biol. Chem.* **276**(46), 42639-42644 (2001).
2. Cravatt, B. and Maxey, K.M. Personal communication.
3. Saghatelian, A., McKinney, M.K., Bandell, M., *et al.* A FAAH-regulated class of N-acyl taurines that activates TRP ion channels. *Biochemistry* **45**(30), 9007-9015 (2006).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10005610

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

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

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