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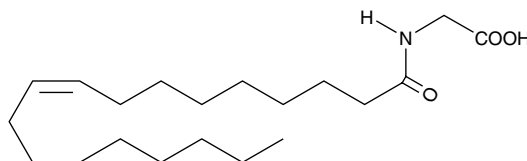
Product Information



N-Oleoyl Glycine

Item No. 90269

CAS Registry No.: 2601-90-3
Formal Name: N-(9Z-octadecenyl)-glycine
MF: C₂₀H₃₇NO₃
FW: 339.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

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

N-Oleoyl glycine is not soluble in water but freely soluble in organic solvents such as ethanol, methanol, acetone, acetonitrile, or DMSO. The solubility of N-oleoyl glycine in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing any biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. It is difficult to obtain aqueous solutions of N-oleoyl glycine directly. However, an organic solvent-free solution of N-oleoyl glycine can be prepared using concentrated basic buffers (pH > 8.0 and ionic strength ≥ 0.1 M). Add 400 µl of cold buffer (0°C) per mg of N-oleoyl glycine and agitate vigorously or ultrasonicate. We do not recommend storing the aqueous solution for more than one day.

N-Oleoyl glycine is a putative substrate for peptidyl glycine α-amidating enzyme¹ in the biosynthesis of oleoyl amide.²

References

1. Merkle, D.J., Merkle, K.A., Stern, W., *et al.* Fatty acid amide biosynthesis: A possible role for peptidylglycine α-amidating enzyme and acyl-coenzyme A:glycine N-acyltransferase. *Arch. Biochem. Biophys.* **330**, 430-434 (1996).
2. Cravatt, B.F., Prospero-García, O., Siuzdak, G., *et al.* Chemical characterization of a family of brain lipids that induce sleep. *Science* **268**, 1506-1509 (1995).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90269

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