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Product Information

N-Oleoylglycine

Product Code **O 9762**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

CAS #: 2601-90-3

Synonym: N-(1-oxo-9-octadecenyl)-(Z)-glycine

Product Description

Purity	minimum 98% (TLC)
Molecular formula	$\text{C}_{20}\text{H}_{37}\text{NO}_3$
Formula weight	339.5
Form	crystalline solid
Source	synthetic

N-Oleoylglycine is a substrate for peptidylglycine α -amidating enzyme in the O_2 -dependent biosynthesis of oleoylamide.¹

Precautions and Disclaimer

Please consult the Material Safety Data Sheet for handling recommendations before working with this material.

Preparation Instructions

Prepare stock solutions (10 mg/mL) by dissolving the crystalline solid in an organic solvent such as ethanol, methanol, acetone, acetonitrile, or DMSO. Working dilutions may be made in aqueous buffers.

Storage/Stability

Product is shipped on wet ice. Store solid at $-20\text{ }^{\circ}\text{C}$ prior to use.

Stock solutions in organic solvents may be stored for up to six months at $-20\text{ }^{\circ}\text{C}$.

References

1. Wilcox, B.J., *et. al.* N-acylglycine amidation: implications for the biosynthesis of fatty acid primary amides. *Biochemistry* **38**, 3235-3245 (1999).
2. Merkler, D.J., *et. al.* Fatty acid amide biosynthesis: a possible new role for peptidylglycine alpha-amidating enzyme and acyl-coenzyme A: glycine N-acyltransferase. *Arch. Biochem. Biophys.* **330**, 430-434 (1996).
3. Cravatt, B.F., *et. al.* Chemical characterization of a family of brain lipids that induce sleep. *Science* **268**, 1506-1509 (1995).

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