



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Laborgeräte & Service

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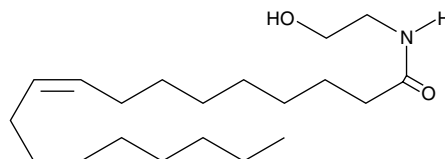
# Product Information



## Oleoyl Ethanolamide

Item No. 90265

**CAS Registry No.:** 111-58-0  
**Formal Name:** N-(2-hydroxyethyl)-9Z-octadecenamide  
**Synonyms:** OEA, Oleic Acid Ethanolamide  
**MF:** C<sub>20</sub>H<sub>39</sub>NO<sub>2</sub>  
**FW:** 325.5  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

For long term storage, we suggest that oleoyl ethanolamide (OEA) be stored as supplied at -20°C. It will be stable for at least one year.

OEA is supplied as a crystalline solid. A stock solution may be made by dissolving the OEA in an organic solvent purged with an inert gas. OEA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of OEA in these solvents is at least 100 mg/ml.

OEA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, OEA should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 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.

OEA is an analog of the endocannabinoid arachidonoyl ethanolamide (AEA) found in brain tissue and in chocolate.<sup>1</sup> It is one of the long chain fatty acid ethanolamides that accumulates rapidly in infarcted tissue,<sup>2</sup> but its biosynthesis is reduced in the intestine of rats following food deprivation.<sup>3</sup> OEA is an endogenous, potent agonist for PPAR $\alpha$ , exhibiting an EC<sub>50</sub> value of 120 nM in a transactivation assay.<sup>4</sup> Systemic administration of OEA suppresses food intake and reduces weight gain in rats (10 mg/kg intraperitoneally) and PPAR $\alpha$  wild-type mice, but not in PPAR $\alpha$  knockout mice.<sup>3,4</sup> These data indicate that OEA regulates food intake by a PPAR $\alpha$ -mediated mechanism.

### References

1. di Tomaso, E., Beltramo, M., and Piomelli, D. Brain cannabinoids in chocolate. *Nature* **382**, 677-678 (1996).
2. Epps, D.E., Palmer, J.W., Schmid, H.H.O., *et al.* Inhibition of permeability-dependent Ca<sup>2+</sup> release from mitochondria by N-acelethanolamines, a class of lipids synthesized in ischemic heart tissue. *J. Biol. Chem.* **257**, 1383-1392 (1982).
3. de Fonseca, F.R., Navarro, M., Gómez, R., *et al.* An anorexic lipid mediator regulated by feeding. *Nature* **414**, 209-212 (2001).
4. Fu, J., Gaetani, S., Oveisi, F., *et al.* Oleylethanolamide regulates feeding and body weight through activation of the nuclear receptor PPAR- $\alpha$ . *Nature* **425**, 90-93 (2003).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/90265](http://www.caymanchem.com/catalog/90265)

**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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