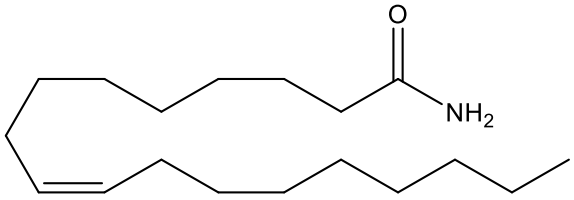
Catalog # 10-2923

Oleamide

CAS# 301-02-0

9Z-Octadecenamide; *cis-9*-Octadecenamide; Oleic acid amide

Lot # S105236



Originally identified in the cerebrospinal fluid of sleep-deprived cats acting as an inducer of physiological sleep in animals.[1] Displays agonist activity at cannabinoid CB1 receptors (K_i=8.13 µM).[2] Activates PPARγ.[3] Produces vasodilator effects in rats.[4] Displays neuroprotective effects[5] and attenuates sepsis-induced intestinal injury[6].

1) Boger *et al*. (1998), *Oleamide: an endogenous sleep-inducing lipid and prototypical member of a new class of biological signaling molecules*; Curr. Pharm. Des., **4** 303
2) Leggett *et al*. (2004), *Oleamide is a selective endogenous agonist of rat and human CB1 cannabinoid receptors*; Br. J. Pharmacol., **141** 253
3) Dionisi *et al*. (2012), *Oleamide activates peroxisome proliferator-activated receptor gamma (PPARγ) in vitro*; Lipids Health Dis., **11** 51
4) Hernandez-Diaz *et al.* (2020), *Effects of Oleamide on the Vasomotor Responses in the Rat*; Cannabis Cannabinoid Res. **5** 42
5) Maya-Lopez *et al*. (2020), *A Cannabinoid Receptor-Mediated Mechanism Participates in the Neuroprotective Effects of Oleamide Against Excitotoxic Damage in Rat Brain Synaptosomes and Cortical Slices*; Neurotox. Res., **37** 126
6) Zou *et al*. (2019), *Cx43 Inhibition Attenuates Sepsis-Induced Intestinal Injury via Downregulating ROS Transfer and the Activation of the JNK1/Sirt1/FoxO3a Signaling Pathway*; Mediators Inflamm., **2019** 7854389

PHYSICAL DATA

Molecular Weight:	281.48
Molecular Formula:	$C_{18}H_{35}NO$
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (40 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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