

Catalog # 10-1297

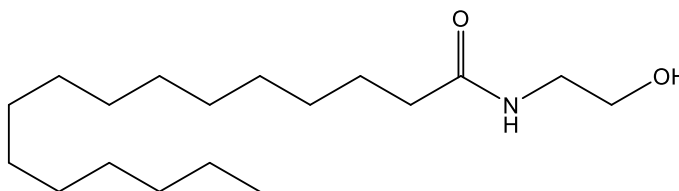
Palmitoylethanolamide

CAS# 544-31-0

N-(2-Hydroxyethyl)palmitamide

PEA

Lot # X101408



Endogenous cannabinoid. Weak ligand for CB₁ (K_i = 23.8 μM) and CB₂ (K_i = 13.9 μM) receptors. Inhibits fatty acid amide hydrolase (FAAH) (IC₅₀ = 5.1 μM). Modulates mast cell activation. Displays immunosuppressant, anti-inflammatory and anti-nociceptive activity.

- 1) De Filippis *et al.* (2011), *Palmitoylethanolamide reduces granuloma-induced hyperalgesia by modulation of mast cell activation in rats*; Mol. Pain, **7** 3
- 2) Re *et al.* (2007), *Palmitoylethanolamide, endocannabinoids and related cannabimimetic compounds in protection against tissue inflammation and pain: potential use in companion animals*; Vet J., **173** 21
- 3) Lambert *et al.* (2002), *The palmitoylethanolamide family: a new class of anti-inflammatory agents?*; Curr. Med. Chem., **9** 663

PHYSICAL DATA

Molecular Weight:	299.50
Molecular Formula:	C ₁₈ H ₃₇ NO ₂
Purity:	98% by TLC: NMR: Conforms
Solubility:	DMSO (up to 25 mg/ml), Ethanol (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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