Palmitylethanolamide

Endocannabinoid

Endogenous cannabinoid. Weak ligand of CB_1 (K_i=23.8μM) and CB_2 (K_i =13.9μM) receptor. Inhibits fatty acid amide hydrolase (FAAH) (IC_{50} =5.1μM). Immunosuppressant, anti-inflammatory, anti-nociceptive and anti-convulsant *in vivo*. The exact mode of action has not yet been revealed. It has been suggested that PEA: i) binds to a yet to be discovered cannabinoid receptor similar to CB_2; ii) administered *in vivo* elicits the synthesis of endogenous agonists of CB_2; iii) acts as an "entourage" compound by enhancing the activity and/or by influencing the turnover of endogenous agonists of CB_2, possibly but not uniquely, by inhibiting their degradation.

Citations: 10 View Online »

Ordering Information

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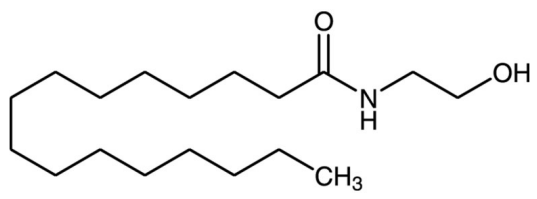
BML-FA018-0050	50mg

Manuals, SDS & CofA

View Online »


O
N
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OH
CH3

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored, as supplied, at 0-4°C. Stock solutions are stable for up to 3 months at -20°C.
Long Term Storage	+4°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	PEA, Palmidrol
Appearance	White solid.
CAS	544-31-0
Couple Target	Cannabinoid receptor, FAAH
Couple Type	Inhibitor, Ligand
Formula	$C_{18}H_{37}NO_2$
MW	299.5
Purity	≥98% (TLC)
Solubility	Soluble in DMSO or 100% ethanol.

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