Product Data Sheet

Chemical Properties

Product Name: Oleoyl Ethyl Amide
Cas No.: 85075-82-7
M.Wt: 309.5
Formula: C20H39NO
Synonyms: OEtA,N-Ethyloleamide
Chemical Name: N-ethyl-9Z-octadecenamide
Canonical SMILES: CCCCCCCCC/C=C\CCCCCCC(=O)NCC
Solubility: ≤50mg/ml in ethanol; 50mg/ml in DMSO; 50mg/ml in dimethyl formamide
Storage: Store at -20°C
General tips: For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Shopping Condition: Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: Metabolism
Pathways: FAAH
Description:

Oleoyl Ethyl Amide (OEtA) is a potent fatty amide acyl hydrolase (FAAH) inhibitor with potential analgesic and anxiolytic activity [1].

Fatty acid amide hydrolase (FAAH) is an integral membrane hydrolase and a member of the serine hydrolase family of enzymes. In vitro, FAAH has esterase and amidase activity. In vivo, FAAH is the principal catabolic enzyme for the fatty acid amides (FAAs).
Oleoyl Ethyl Amide (OEtA) is a potent fatty amide acyl hydrolase (FAAH) inhibitor. In rat brain homogenates, Oleoyl Ethyl Amide inhibited FAAH activity with IC50 value of 5.25 nM, but did not bind to CB1 or CB2 receptors, or inhibit acidic PEAase. Oleoyl Ethyl Amide is a potent and selective FAAH inhibitor with potential analgesic and anxiolytic activity [1].

In Sprague-Dawley rats, subcutaneous injections of OEtA (0.3 mg/kg) for 2 weeks increased values of micturition intervals (MI) and volumes (MV), bladder capacity (BC), threshold pressure, and flow pressure. OEtA altered sensory urodynamic parameters and reduced bladder overactivity [2].

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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