

Product Data Sheet

Product Name: Heptadecanoyl Ethanolamide

Cat. No.: GC41487

Chemical Properties

Cas. No. 53832-59-0

SMILES CCCCCCCCCCCCCCCC(=O)NCCO

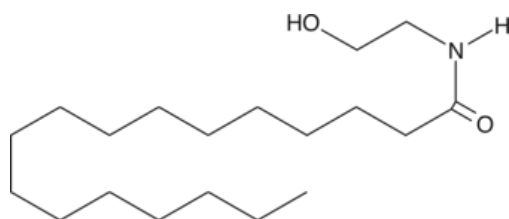
Formula C19H39NO2 M.Wt 313.5

Solubility DMF: 2 mg/ml, DMSO: 2.5 mg/ml, Ethanol: 4 mg/ml, Ethanol: PBS (1:10): 10 µg/ml
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.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Palmitoyl ethanolamide (PEA) is an endogenous cannabinoid found in brain, liver, and other mammalian tissues. PEA has also been isolated from egg yolk, and found to have antianaphylactic and anti-inflammatory activity in vitro. Heptadecanoyl ethanolamide is a synthetic analog of PEA which incorporates an odd-numbered (17-carbon) fatty acid chain. This analog is unlikely to be present in any natural tissue, and so can be used as an internal standard for quantitative analysis. Heptadecanoyl ethanolamide potentiates the Ca²⁺ influx response to arachidonyl ethanolamide several fold in cells expressing human recombinant VR1.

Caution: Product has not been fully validated for medical applications. For research use only.

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