

Product Data Sheet

Product Name: N-Oleoyl Proline

Cat. No.: GC44442

Chemical Properties

Cas. No. 107432-37-1

SMILES CCCCCCCC/C=C\CCCCCCCC(N1CCC[C@H]1C(O)=O)=O

Formula C₂₃H₄₁NO₃

M.Wt 379.6

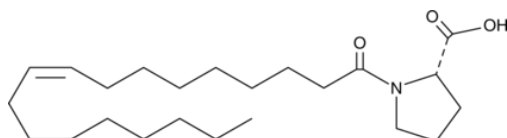
Solubility DMF: 10 mg/ml, DMSO: 12 mg/ml, Ethanol: 12 mg/ml, Ethanol: PBS (pH 7.2) (1:4): 200 µg/ml

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

N-Oleoyl proline is an N-acyl amine that has been detected in bovine brain extracts and D. melanogaster larvae using mass spectrometry. In a preclinical model of pain, mice lacking fatty acid amide hydrolase (FAAH KO) had decreased N-oleoyl proline levels in lumbar spinal cord after capsaicin administration (1 µg/10 µl). N-Oleoyl proline also has surfactant properties (critical micelle concentration = 4.8 µM).

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

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