

Product Data Sheet

Product Name: CAY10412

Cat. No.: GC43152

Chemical Properties

Cas. No. 390824-17-6

SMILES CCCCC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CCCC(=O)OCc1cscc1

Formula C₂₅H₃₆O₂S

M.Wt 400.6

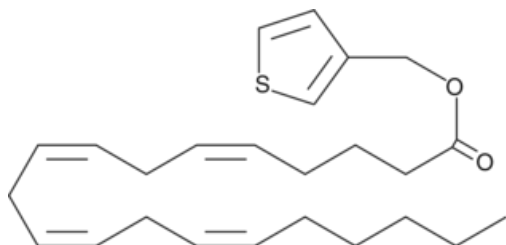
Solubility DMF: 30 mg/ml, DMSO: 20 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:3): 100 µg/ml

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

Anandamide (arachidonoyl ethanolamide; AEA) is an endogenous lipid with cannabinergic activity; along with 2-arachidonoyl glycerol, it forms part of the endocannabinoid system. AEA undergoes reuptake into neurons by a facilitated process. Controversy exists as to whether there is a specific AEA transporter, or instead the uptake process is simply driven by hydrolysis of AEA by intracellular fatty acyl amide hydrolase (FAAH). CAY10412 is an analog of AEA that has no intrinsic binding affinity for either CB1 or CB2 receptors. It is a potent inhibitor of AEA reuptake in U937 lymphoma cells, with an IC₅₀ of 3 µM. CAY10412 could be a useful tool for distinguishing the competing transporter theories. The pharmacology of CAY10412 is largely unexplored; it may enhance endocannabinoid signalling by augmenting endocannabinoid concentrations.

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

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