

Product Data Sheet

Product Name: Stearoyl Ethanolamide-d₃

Cat. No.: GC48106

Chemical Properties

Cas. No. 2749393-37-9

SMILES O=C(NCCO)CCCCCCCCCCCCCCCC([2H])([2H])[2H]

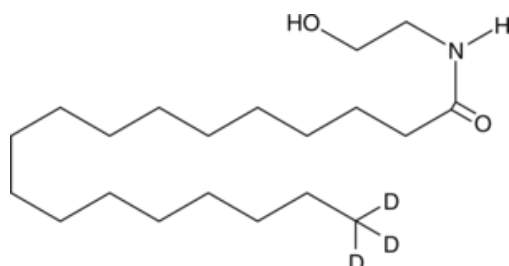
Formula C₂₀H₃₈D₃NO₂ M.Wt 330.6

Solubility DMF: >2 mg/ml, DMSO: >100 mg/ml, Ethanol: >2 mg/ml, PBS (pH 7.2): >100 mg/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

Stearoyl ethanolamide-d₃ is intended for use as an internal standard for the quantification of stearoyl ethanolamide by GC- or LC-mass spectrometry. Stearoyl ethanolamide is a member of the family of fatty N-acyl ethanolamines collectively called anandamides. Stearoyl ethanolamide is the most abundant of several fatty acid ethanolamides produced by the PLD hydrolysis of mouse neuroblastoma cell membrane phospholipids.¹ The specific role of stearoyl ethanolamide in the cannabinergic system is still to be elucidated.

1. Di Marzo, V., De Petrocellis, L., Sepe, N., et al. Biosynthesis of anandamide and related acylethanolamides in mouse J774 macrophages and N18 neuroblastoma cells. *Biochemistry Journal* 316:977-984 (1996)

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

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