Stearoylethanolamide

Cat. No.: HY-113015

CAS No.: 111-57-9

Molecular Formula: $C_{20}H_{41}NO_2$

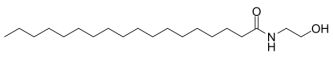
Molecular Weight: 327.55

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (101.76 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0530 mL	15.2648 mL	30.5297 mL
	5 mM	0.6106 mL	3.0530 mL	6.1059 mL
	10 mM	0.3053 mL	1.5265 mL	3.0530 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (7.63 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Stearoylethanolamide is an endocannabinoid-like compound with pro-apoptotic activity.

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

Stearoylethanolamide (SEA) is present in human, rat and mouse brain in amounts comparable with those of the endocannabinoid anandamide (arachidonoylethanolamide; AEA). Stearoylethanolamide is an endocannabinoid-like compound with pro-apoptotic activity, which is regulated by NO in a way opposite to that reported for AEA[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Maccarrone M, et al. Binding, degradation and apoptotic activity of stearoylethanolamide in rat C6 glioma cells. Biochem J. 2002 Aug 15;366(Pt 1):137-44.

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