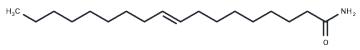
Data Sheet (Cat.No.T38143)

TargetMol

9(E)-Octadecenamide

Chemical Properties



CAS No. : 4303-70-2

Formula: C18H35NO

Molecular Weight: 281.48

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	9(E)-Octadecenamide (Elaidamide) is a fatty acid amide and endogenous metabolite that inhibits rat microsomal epoxide hydrolase (mEH) with a Ki of 70 nM.
Targets(IC50)	Others,Endogenous Metabolite,Epoxide Hydrolase
In vivo	In vivo, 9(E)-Octadecenamide (10 mg/animal) induces physiological sleep in rats.[1]

Solubility Information

Solubility	DMF: 1.5 mg/mL (5.33 mM),Sonication is recommended. DMF:PBS (pH 7.2) (1:1): 0.5 mg/mL (1.78 mM),Sonication is recommended. DMF:PBS (pH 7.2)(1:1): 0.4 mg/mL (slightly soluble),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5527 mL	17.7633 mL	35.5265 mL
5 mM	0.7105 mL	3.5527 mL	7.1053 mL
10 mM	0.3553 mL	1.7763 mL	3.5527 mL
50 mM	0.0711 mL	0.3553 mL	0.7105 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cravatt, B.F., et al. Chemical characterization of a family of brain lipids that induce sleep. Science 268(5216), 1506-1509 (1995).

Morisseau, C., et al. Inhibition of microsomal epoxide hydrolases by ureas, amides, and amines. Chem. Res. Toxicol. 14(4), 409-415 (2001).

Jain, M.K., et al. Fatty acid amides: scooting mode-based discovery of tight-binding competitive inhibitors of secreted phospholipases A2. J. Med. Chem. 35(19), 3584-3586 (1992).

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