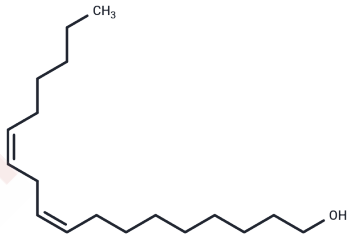
Data Sheet (Cat.No.T9512)

TargetMol

Linoleyl alcohol

Chemical Properties



CAS No. : 506-43-4

Formula: C18H34O

Molecular Weight: 266.46

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

Biological Description

Description	Linoleyl alcohol (CIS,CIS-9,12-OCTADECADIENOL), fatty alcohol, is a structural analog of Linoleic acid with no a-carboxyl group[1].
Targets(IC50)	Others
In vitro	The dioxygenation of Linoleyl alcohol by potato tuber lipoxygenase results in the formation of two positional isomeric 13-hydroperoxyoctadecadien-1-ols and products-9-[1].
In vivo	Esters made from Gallic acid (GA) and (-)-Epigallo-catechin (EGC) or Linoleyl alcohol are more effective in weight-loss promotion and metabolic syndrome management than are intact GA and EGC[2].

Solubility Information

Solubility	DMSO: 100 mg/mL (375.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (15.01 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7529 mL	18.7645 mL	37.5291 mL
5 mM	0.7506 mL	3.7529 mL	7.5058 mL
10 mM	0.3753 mL	1.8765 mL	3.7529 mL
50 mM	0.0751 mL	0.3753 mL	0.7506 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

I A Butovich, et al. Oxidation of linoleyl alcohol by potato tuber lipoxygenase: kinetics and positional, stereo, and geometrical (cis, trans) specificity of the reaction. Arch Biochem Biophys. 2000 Jun 1;378(1):65-77.
Nagao Totani, et al. Gallic acid glycerol ester promotes weight-loss in rats. J Oleo Sci. 2011;60(9):457-62.