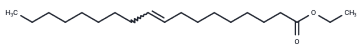
Data Sheet (Cat.No.T19316)

TargetMol

Ethyl oleate

Chemical Properties



CAS No. :	111-62-6
Formula:	C20H38O2
Molecular Weight:	310.51
Storage:	Store at low temperature 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	Ethyl oleate, a fatty acid ester produced through the condensation of oleic acid and ethanol, serves as the liquid lipid component in nanostructured lipid carriers (NLCs). These NLCs represent a pioneering approach for the oral administration of trans-Ferulic acid (TFA), highlighting ethyl oleate's critical role in enabling effective drug delivery systems.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (177.13 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: 2 mg/mL (6.44 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	3.2205 mL	16.1025 mL	32.2051 mL
5 mM	0.6441 mL	3.2205 mL	6.441 mL
10 mM	0.3221 mL	1.6103 mL	3.2205 mL
50 mM	0.0644 mL	0.3221 mL	0.6441 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

Zhang Y, et al. Ethyl oleate-containing nanostructured lipid carriers improve oral bioavailability of trans-ferulic acid ascompared with conventional solid lipid nanoparticles. Int J Pharm. 2016 Sep 10;511(1):57-64.