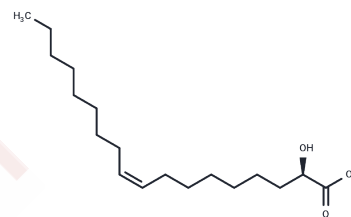


Idroxiolic acid

Chemical Properties

CAS No. :	182370-45-2
Formula:	C18H34O3
Molecular Weight:	298.467
Storage:	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	Idroxiolic acid ((R)-2-Hydroxyoleic acid; (R)-2-OHOA) is the R enantiomer of (Rac)-Idroxiolic acid. It is an orally active fatty acid recognized for its capacity to modulate lipid composition and membrane structure. With demonstrated antitumor activities, Idroxiolic acid is significant in cancer research.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	(R)-2-Hydroxyoleic acid ((R)-2-OHOA), also known as idroxiolic acid, effectively inhibited the growth of the A549 lung adenocarcinoma cell line, demonstrating an IC50 value of 252 μ M[1].
In vivo	(R)-2-Hydroxyoleic acid (R)-2-OHOA, administered orally at a dosage of 400 mg/kg daily for 21 days, led to a 20-25% decrease in tumor volume[1]. This outcome was observed in a study involving male NUDE (Swiss) CrI:NU(Ico)-Foxn1nu mice, aged 5 weeks and weighing 30-35 g, which were injected with A549 human lung cancer cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3504 mL	16.7521 mL	33.5042 mL
5 mM	0.6701 mL	3.3504 mL	6.7008 mL
10 mM	0.335 mL	1.6752 mL	3.3504 mL
50 mM	0.067 mL	0.335 mL	0.6701 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

Stefano Piotto, et al. Differential effect of 2-hydroxyoleic acid enantiomers on protein (sphingomyelin synthase) and lipid (membrane) targets. *Biochim Biophys Acta*. 2014 Jun;1838(6):1628-37.

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