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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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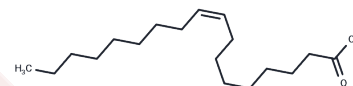
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Oleic acid

Chemical Properties

CAS No. :	112-80-1
Formula:	C ₁₈ H ₃₄ O ₂
Molecular Weight:	282.46
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Oleic acid (Glycon Wo) is a natural product, a common monounsaturated fatty acid found in a variety of animal and vegetable fats and oils. Palmitic acid is a Na ⁺ /K ⁺ ATPase activator.
Targets(IC50)	Apoptosis,ATPase,Others,Endogenous Metabolite
In vitro	<p>METHODS: Human tumor cells HCG-27, AGS, MDA-MB-231, SGC7901, BGC823 and MCF-7 were treated with Oleic acid (400 μM) for 24-72 h. Cell viability was detected using MTT.</p> <p>RESULTS: Oleic acid stimulated cell viability in HGC-27, MDA-MB-231 cells, and inhibited cell viability in AGS, SGC7901, BGC823 and MCF-7 cells. [1]</p> <p>METHODS: Renal cell carcinoma cells 786-O were treated with Oleic acid (0.05-0.2 mM/L) for 48 h. Apoptosis was detected by Flow Cytometry.</p> <p>RESULTS: Oleic acid retarded apoptosis of 786-O cells in a concentration-dependent manner. [2]</p>
In vivo	<p>METHODS: To detect the antitumor activity in vivo, Oleic acid (10 mg/kg) was administered by gavage to LKB1fl/flp53fl/fl endometrial tumor mouse model five days per week for four weeks.</p> <p>RESULTS: Oleic acid treatment for four weeks significantly inhibited tumor growth by 52.1%.Oleic acid exhibits anti-tumor activity in endometrial cancers, which is dependent on the PTEN/AKT/mTOR signaling pathway. [3]</p> <p>METHODS: To study its role in ischemic injury, Oleic acid (10-30 mg/kg, 5% Tween 20 in sterile saline) was administered intraperitoneally to rodent models of middle cerebral artery occlusion (MCAO), photochromic and four-vessel occlusion (4-VO).</p> <p>RESULTS: Oleic acid administration reduced MCAO-induced infarct volume and functional deficits, photochromic-induced infarct volume, and 4-VO-induced hippocampal neuronal death. [4]</p>

Solubility Information

Solubility	DMSO: 60 mg/mL (212.42 mM), 5% DMSO+95% Saline: 3 mg/mL (10.62 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5403 mL	17.7016 mL	35.4032 mL
5 mM	0.7081 mL	3.5403 mL	7.0806 mL
10 mM	0.354 mL	1.7702 mL	3.5403 mL
50 mM	0.0708 mL	0.354 mL	0.7081 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.

Reference

Li S, et al. High metastatic gastric and breast cancer cells consume oleic acid in an AMPK dependent manner. PLoS One. 2014 May 13;9(5):e97330.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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