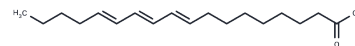


9(E),11(E),13(E)-Octadecatrienoic Acid

Chemical Properties

CAS No. :	544-73-0
Formula:	C18H30O2
Molecular Weight:	278.436
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	9(E),11(E),13(E)-Octadecatrienoic acid (β -ESA) is a conjugated polyunsaturated fatty acid that is found in plant seed oils and in mixtures of conjugated linolenic acids synthesized by the alkaline isomerization of linolenic acid. It reduces growth of Caco-2 colon cancer cells in a dose-dependent and time-dependent manner.
In vitro	In vitro, β -ESA induces DNA fragmentation and upregulation of pro-apoptotic Bax mRNA. β -ESA decreases protein expression of the apoptosis suppression factor Bcl-2 and induces apoptosis in T24 bladder cancer cells via production of reactive oxygen species. It also inhibits bacterial fatty acid dioxygenase with a K_i value of 49 nM in vitro.

Solubility Information

Solubility	DMSO: 10 mg/mL Ethanol: 20 mg/mL DMF: 30 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5914 mL	17.9572 mL	35.9144 mL
5 mM	0.7183 mL	3.5914 mL	7.1829 mL
10 mM	0.3591 mL	1.7957 mL	3.5914 mL
50 mM	0.0718 mL	0.3591 mL	0.7183 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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