

Product Name: ET 18-OCH₃

Catalog No.: 7462

Batch No.: 1

CAS Number: 70641-51-9

IUPAC Name: 4-Hydroxy-7-methoxy-*N,N,N*-trimethyl-3,5,9-trioxa-4-phosphaheptacosan-1-aminium 4-oxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₅₈NO₆P. 1¼H₂O

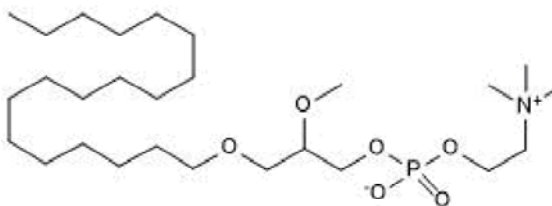
Batch Molecular Weight: 546.25

Physical Appearance: White solid

Solubility: water to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.37	11.16	2.56
Found	59.03	11.16	2.41

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

ET 18-OCH₃ is a synthetic lysophospholipid analog that selectively inhibits phosphatidylinositol phospholipase C (IC₅₀ = 9.6 μM in fibroblasts and adenocarcinoma cells). ET 18-OCH₃ acts as an agonist at platelet-activating factor (PAF) receptors. ET 18-OCH₃ is an antitumor lipid that selectively induces apoptosis in tumor cells, sparing normal cells, and activates the intracellular Fas/CD95 death receptor. ETH 18-OCH₃ also triggers eryptosis and interacts with mitochondrial membranes to increase mitochondrial membrane permeability, leading to dysfunction and apoptosis. Racemic mixture. Please see product specific page on www.tocris.com for full description.

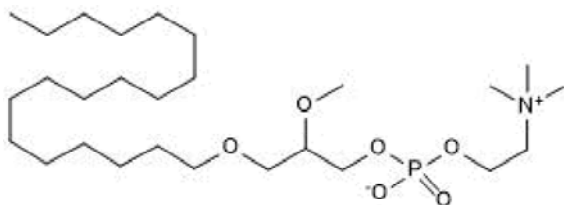
Physical and Chemical Properties:

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References:

Briglia et al (2015) Edelfosine induced suicidal death of human erythrocytes. *Cell.Physiol.Biochem.* **37** 2221. PMID: 26618532.

Shimizu et al (2007) Roles of brain phosphatidylinositol-specific phospholipase C and diacylglycerol lipase in centrally administered histamine-induced adrenomedullary outflow in rats. *Eur.J.Pharmacol.* **571** 138. PMID: 17628524.

Wong et al (2007) Phospholipase C and myosin light chain kinase inhibition define a common step in actin regulation during cytokinesis. *BMC Cell Biol.* **8** 15. PMID: 17509155.

Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Standard retail vials are prepared by lyophilisation. The product may appear as a solid, a gel or a film. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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