

# Certificate of Analysis

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**Product Name:** ET 18-OCH<sub>3</sub>

**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:** C<sub>27</sub>H<sub>58</sub>NO<sub>6</sub>P. 1¼H<sub>2</sub>O

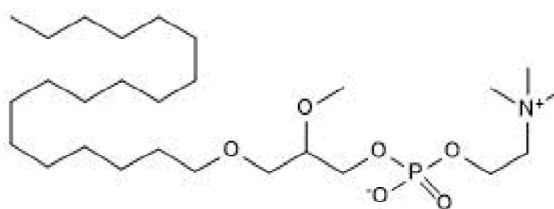
**Batch Molecular Weight:** 546.25

**Physical Appearance:** White solid

**Solubility:** water to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**<sup>1</sup>H 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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

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**Description:**

ET 18-OCH<sub>3</sub> is a synthetic lysophospholipid analog that selectively inhibits phosphatidylinositol phospholipase C (IC<sub>50</sub> = 9.6 μM in fibroblasts and adenocarcinoma cells). ET 18-OCH<sub>3</sub> acts as an agonist at platelet-activating factor (PAF) receptors. ET 18-OCH<sub>3</sub> is an antitumor lipid that selectively induces apoptosis in tumor cells, sparing normal cells, and activates the intracellular Fas/CD95 death receptor. ETH 18-OCH<sub>3</sub> 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](http://www.tocris.com) for full description.

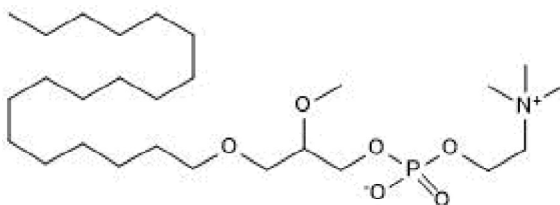
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**Batch Molecular Structure:**



**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

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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