

Certificate of Analysis

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Product Name: 5-Oxo-ETE

Catalog No.: 1796

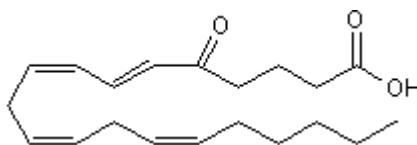
Batch No.: 3

CAS Number: 106154-18-1

IUPAC Name: 5-Oxo-(6E,8Z,11Z,14Z)-6,8,11,14-eicosatetraenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀ H ₃₀ O ₃
Batch Molecular Weight:	318.46
Physical Appearance:	Clear solution
Solubility:	Soluble in ethanol (supplied pre-dissolved in Ethanol, 0.1mg/ml)
Storage:	Store at -80°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.6% purity
Mass Spectrum:	Consistent with structure

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

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IUPAC Name: 5-Oxo-(6E,8Z,11Z,14Z)-6,8,11,14-eicosatetraenoic acid

Description:

Potent oxoeicosanoid (OXE) receptor agonist ($EC_{50} = 0.33$ nM). Chemoattractant for both neutrophils and eosinophils and induces transendothelial migration of eosinophils.

Physical and Chemical Properties:

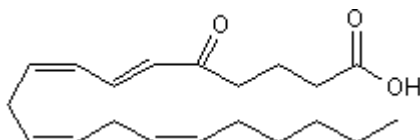
Batch Molecular Formula: $C_{20}H_{30}O_3$

Batch Molecular Weight: 318.46

Physical Appearance: Clear solution

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -80°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble in ethanol (supplied pre-dissolved in Ethanol, 0.1mg/ml)

This product is supplied dissolved in ethanol at a concentration of 100 µg/ml

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.

References:

Powell et al (1994) Effects of phorbol myristate acetate on the synthesis of 5-oxo-6,8,11,14-eicosatetraenoic acid by human polymorphonuclear leukocytes. *Biochemistry* **33** 3927. PMID: 8142396.

Jones et al (2003) Expression and characterization of a 5-oxo-6E,8Z,11Z,14Z-eicosatetraenoic acid receptor highly expressed on human eosinophils and neutrophils. *Mol.Pharmacol.* **63** 471. PMID: 12606753.

Patel et al (2008) Structural requirements for activation of the 5-oxo-6E,8Z,11Z,14Z-eicosatetraenoic acid receptor: identification of a mead acid metabolite with potent agonist activity. *J.Pharmacol.Exp.Ther.* **325** 698. PMID: 18292294.

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