

Certificate of Analysis

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Product Name: AACOCF₃

Catalog No.: 1462

Batch No.: 9

CAS Number: 149301-79-1

IUPAC Name: 1,1,1-Trifluoro-6Z,9Z,12Z,15Z-heneicosateraeen-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₁F₃O

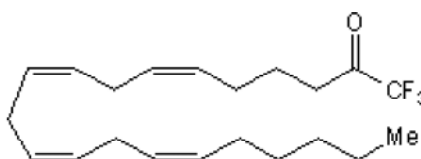
Batch Molecular Weight: 356.47

Physical Appearance: Pale yellow liquid

Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

¹³C NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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IUPAC Name: 1,1,1-Trifluoro-6Z,9Z,12Z,15Z-heneicosatetraen-2-one

Description:

AACOCF₃ is a inhibitor of cytosolic (85 kDa) phospholipase A₂. Also inhibits fatty acid amide hydrolase (FAAH, anandamide amidase) in vitro.

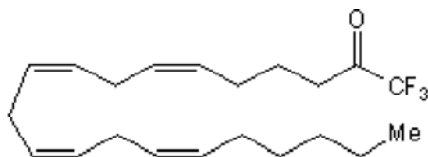
Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₃₁F₃O

Batch Molecular Weight: 356.47

Physical Appearance: Pale yellow liquid

Batch Molecular Structure:



Storage: Store at -20°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 anhydrous ethanol, 5mg/ml)

This product is supplied dissolved in anhydrous ethanol at a concentration of 5mg/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:

Rastogi and McHowat (2009) Inhibition of calcium-independent phospholipase A₂ prevents inflammatory mediator production in pulmonary microvascular endothelium. *Respir.Physiol.Neurobiol.* **165** 167. PMID: 19059366.

Koutek et al (1994) Inhibitors of arachidonoyl ethanolamide hydrolysis. *J.Biol.Chem.* **269** 22937. PMID: 8083191.

Riendeau et al (1994) Arachidonyl trifluoromethyl ketone, a potent inhibitor of 85-kDa phospholipase A₂, blocks production of arachidonate and 12-hydroxyeicosatetraenoic acid by calcium ionophore-challenged platelets. *J.Biol.Chem.* **269** 15619. PMID: 8195210.

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