

Certificate of Analysis

Product Name: U 46619

Catalog No.: 1932

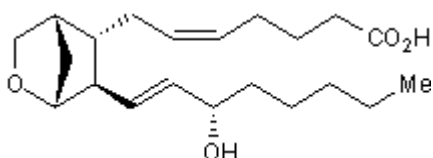
Batch No.: 7

CAS Number: 56985-40-1

IUPAC Name: (5Z)-7-[(1R,4S,5S,6R)-6-[(1E,3S)-3-Hydroxy-1-octenyl]-2-oxabicyclo[2.2.1]hept-5-yl]-5-heptenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₁ H ₃₄ O ₄
Batch Molecular Weight:	350.5
Physical Appearance:	Colourless liquid
Solubility:	Soluble in methyl acetate (supplied pre-dissolved -10mg/ml)
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 100% purity
Mass Spectrum:	Consistent with structure

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

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Description:

PGH₂ (TXA₂) analog that is a potent and stable thromboxane A₂ (TP) receptor agonist (EC₅₀ = 0.035 μM). Potently stimulates TP receptor-mediated, but not other prostaglandin receptor-mediated responses in various in vitro preparations. Activates ERK-1 and ERK-2 in HEK 293 cells expressing TP α and TP β receptors.

Physical and Chemical Properties:

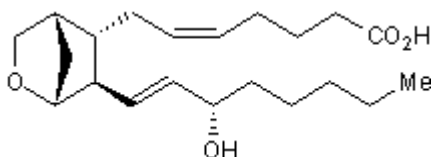
Batch Molecular Formula: C₂₁H₃₄O₄

Batch Molecular Weight: 350.5

Physical Appearance: Colourless liquid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in methyl acetate (supplied pre-dissolved -10mg/ml)

This compound is supplied pre-dissolved in Methyl acetate (10mg/ml). To change the solvent, evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the chosen solvent (preferably purged with nitrogen beforehand). The solubility of U 46619 is greater than 100mM in both DMSO and Ethanol, and about 5mM in PBS. We do not recommend storing aqueous solutions for more than a day.

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:

Miggin and Kinsella (2002) Regulation of extracellular signal-regulated kinase cascades by α - and β -isoforms of the human thromboxane A₂ receptor. *Mol.Pharmacol.* **61** 817. PMID: 11901221.

Morinelli et al (1987) Receptor-mediated effects of a PGH₂ analogue (U 46619) on human platelets. *Am.J.Physiol.* **253** H1035. PMID: 3688248.

Coleman et al (1981) Comparison of the actions of U-46619, a prostaglandin H₂-analogue, with those of prostaglandin H₂ and thromboxane A₂ on some isolated smooth muscle preparations. *Br.J.Pharmacol.* **73** 773. PMID: 7248665.

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