bio-techne
TOCRIS

Print Date: May 19th 2026

Certificate of Analysis

www.tocris.com

Product Name: **U 46619** **Catalog No.: 1932** **Batch No.: 14**

CAS Number: 56985-40-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{34}O_4$

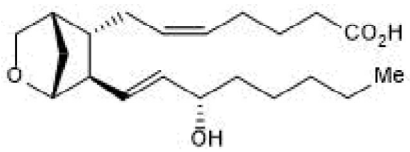
Batch Molecular Weight: 350.5

Physical Appearance: liquid

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

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity

Mass Spectrum: Consistent with structure

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

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Description:

U 46619 is a PGH_2 (TXA_2) analog that is a potent and stable thromboxane A_2 (TP) receptor agonist (EC_{50} = 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 TPα and TPβ receptors.

Physical and Chemical Properties:

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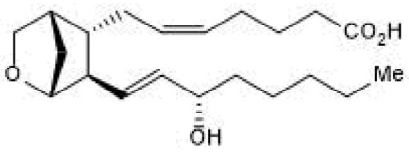
Batch Molecular Weight: 350.5

Physical Appearance: 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. *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.

References:

Miggin and Kinsella (2002) Regulation of extracellular signal-regulated kinase cascades by α- and β-isoforms of the human thromboxane A_2 receptor. Mol.Pharmacol. ***61*** 817. PMID: 11901221.

Morinelli *et al* (1987) Receptor-mediated effects of a PGH_2 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 H_2-analogue, with those of prostaglandin H_2 and thromboxane A_2 on some isolated smooth muscle preparations. Br.J.Pharmacol. ***73*** 773. PMID: 7248665.