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

2. ANALYTICAL DATA

HPLC: Shows 100% purity
Mass Spectrum: Consistent with structure
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 TPα and TPβ receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C₇₁H₅₅O₄
Batch Molecular Weight: 350.5
Physical Appearance: Colourless liquid

Minimum Purity: >98%

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: