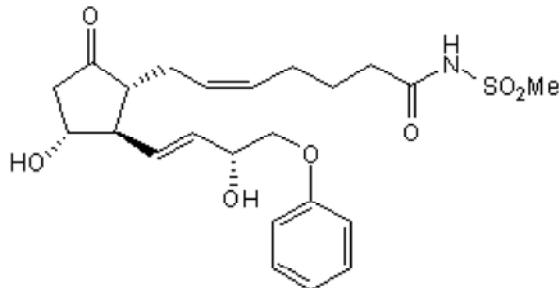


Certificate of Analysiswww.tocris.com**Product Name:** Sulprostone**Catalog No.:** 3049**Batch No.:** 3

CAS Number: 60325-46-4

EC Number: 262-173-0

IUPAC Name: (5Z)-7-[(1*R*,2*R*,3*R*)-3-Hydroxy-2-[(1*E*,3*R*)-3-hydroxy-4-buten-1-yl]-5-oxocyclopentyl]-*N*-(methylsulfonyl)-5-heptenamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₃H₃₁NO₇S**Batch Molecular Weight:** 465.56**Physical Appearance:** Colourless liquid**Solubility:** Soluble in methyl acetate (supplied pre-dissolved - 5mg/ml)**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99% purity**Mass Spectrum:** Consistent with structure

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

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Product Information

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Description:

Sulprostone is a selective EP₃ and EP₁ receptor agonist (K_i values are 0.6 and 21 nM respectively). Synthetic PGE₂ analog and allodynic agent.

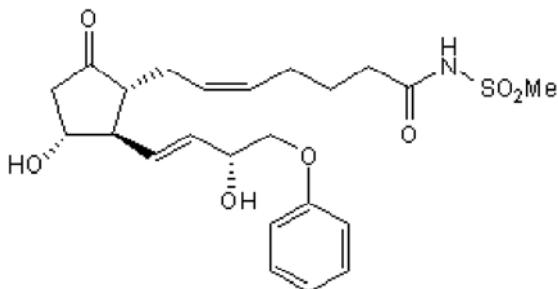
Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₃₁NO₇S

Batch Molecular Weight: 465.56

Physical Appearance: Colourless liquid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in methyl acetate (supplied pre-dissolved - 5mg/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 Sulprostone is greater than 10mM in both DMSO and Ethanol. Stock solutions can then be further diluted into aqueous buffers. 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:

Gil *et al* (2008) Transient allodynia pain models in mice for assessment of analgesic activity. Br.J.Pharmacol. **153** 769. PMID: 17700719.

Narumiya *et al* (1999) Prostanoid receptors: Structures, properties, and functions. Phys.Rev. **79** 1193.

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