bio-techne
TOCRIS

Print Date: Feb 23rd 2026

Certificate of Analysis

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Product Name: **Epoprostenol** **Catalog No.: 2989** **Batch No.: 4**

CAS Number: 61849-14-7 EC Number: 263-273-7

IUPAC Name: (5*Z*,13*E*,8*R*,9*S*,11*R*,12*R*,15*S*)-6,9-Epoxy-11,15-dihydroxyprosta-5,13-dien-1-oic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{31}NaO_5.7H_2O$

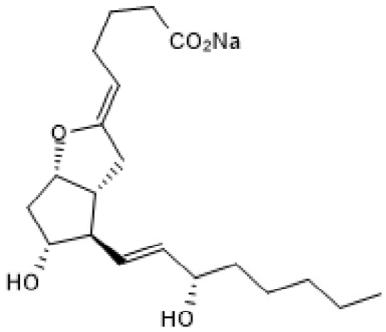
Batch Molecular Weight: 500.56

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

Mass Spectrum: Consistent with structure

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Description:

Epoprostenol is an endogenous prostanoid that is a potent agonist at IP prostanoid receptors. Inhibits platelet aggregation and induces vasodilation.

Physical and Chemical Properties:

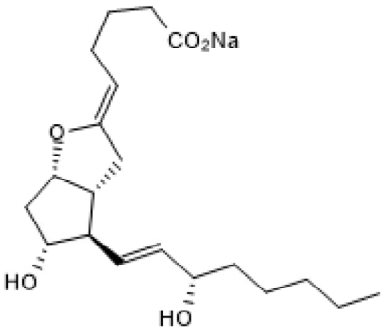
Batch Molecular Formula: $C_{20}H_{31}NaO_5.7H_2O$

Batch Molecular Weight: 500.56

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival. It is recommended to use freshly prepared solutions as this product is unstable in aqueous solutions.

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:

Kobzar *et al* (2001) Comparison of anti-aggregatory effects of PGI_2, PGI_3 and ilo. on human and rabbit platelets. Cell.Physiol.Biochem. ***11*** 279. PMID: 11684817.

Oliva and Nicosia (1987) PGI_2-receptors and molecular mechanisms in platelets and vasculature: state of the art. Pharmacol.Res.Comm. ***19*** 735.

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