

## Certificate of Analysis

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**Product Name:** Epoprostenol

**Catalog No.:** 2989

**Batch No.:** 3

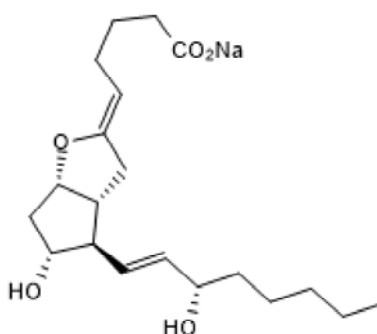
CAS Number: 61849-14-7

EC Number: 263-273-7

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

|                                   |  |
|-----------------------------------|--|
| <b>Batch Molecular Formula:</b>   | C <sub>20</sub> H <sub>31</sub> NaO <sub>5</sub> |
| <b>Batch Molecular Weight:</b>    | 374.45   |
| <b>Physical Appearance:</b>       | White solid                                      |
| <b>Solubility:</b>                | water to 100 mM                                  |
| <b>Storage:</b>                   | Desiccate at -80°C                               |
| <b>Batch Molecular Structure:</b> |  |



### 2. ANALYTICAL DATA

|                       |                           |
|-----------------------|---------------------------|
| <b>HPLC:</b>          | Shows 99.3% purity        |
| <b>Mass Spectrum:</b> | Consistent with structure |

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

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

**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:**

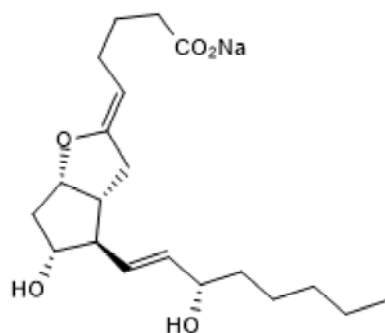
Batch Molecular Formula: C<sub>20</sub>H<sub>31</sub>NaO<sub>5</sub>

Batch Molecular Weight: 374.45

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at -80°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. 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:**

**Kobzar et al** (2001) Comparison of anti-aggregatory effects of PGI<sub>2</sub>, PGI<sub>3</sub> and ilo. on human and rabbit platelets. *Cell.Physiol.Biochem.* **11** 279. PMID: 11684817.

**Oliva and Nicosia** (1987) PGI<sub>2</sub>-receptors and molecular mechanisms in platelets and vasculature: state of the art. *Pharmacol.Res.Comm.* **19** 735.

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