

**Product Name:** Beraprost sodium

**Catalog No.:** 4180

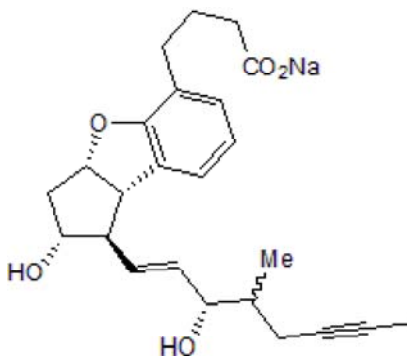
**Batch No.:** 2

CAS Number: 88475-69-8

IUPAC Name: 2,3,3a,8b-Tetrahydro-2-hydroxy-1-(3-hydroxy-4-methyl-1-octen-6-yn-1-yl)-1*H*-cyclopenta[*b*]benzofuran-5-butanoic acid sodium salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

|                                   |  |
|-----------------------------------|--|
| <b>Batch Molecular Formula:</b>   | C <sub>24</sub> H <sub>29</sub> NaO <sub>5</sub> |
| <b>Batch Molecular Weight:</b>    | 420.47   |
| <b>Physical Appearance:</b>       | White solid                                      |
| <b>Solubility:</b>                | DMSO to 25 mM                                    |
| <b>Storage:</b>                   | Store at -20°C                                   |
| <b>Batch Molecular Structure:</b> |  |



## 2. ANALYTICAL DATA

|                       |                           |
|-----------------------|---------------------------|
| <b>HPLC:</b>          | Shows 99.9% purity        |
| <b>Mass Spectrum:</b> | Consistent with structure |

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

**Product Name:** Beraprost sodium

**Catalog No.:** 4180

**Batch No.:** 2

CAS Number: 88475-69-8

IUPAC Name: 2,3,3a,8b-Tetrahydro-2-hydroxy-1-(3-hydroxy-4-methyl-1-octen-6-yn-1-yl)-1H-cyclopenta[b]benzofuran-5-butanoic acid sodium salt

**Description:**

Potent IP receptor agonist; analog of Epoprostenol (Cat. No. 2989). Potently inhibits ADP-induced platelet aggregation and P-selectin expression in vitro (pIC<sub>50</sub> values are 8.26 and 8.56, respectively). Also increases vasodilation and reduces pulmonary hypertension in vivo. Orally active.

**Physical and Chemical Properties:**

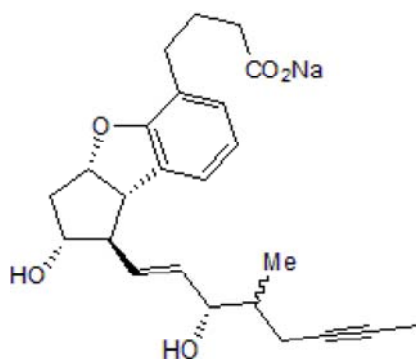
Batch Molecular Formula: C<sub>24</sub>H<sub>29</sub>NaO<sub>5</sub>

Batch Molecular Weight: 420.47

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C. This product is packaged under an inert atmosphere.

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 25 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**

**Miyamoto *et al*** (2003) Effects of TRA-418, a novel TP-receptor antagonist, and IP-receptor agonist, on human platelet activation and aggregation. *Br.J.Pharmacol.* **140** 889. PMID: 14504133.

**Saito *et al*** (1995) Effects of beraprost sodium (a PGI<sub>2</sub> derivative) on chronic hypoxic pulmonary hypertension in the rat. *Nihon Kyobu Shikkan Gakkai Zasshi.* **33** 497. PMID: 7609334.

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

**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel:+1 612 379 2956