

Product Name: Beraprost sodium

Catalog No.: 4180

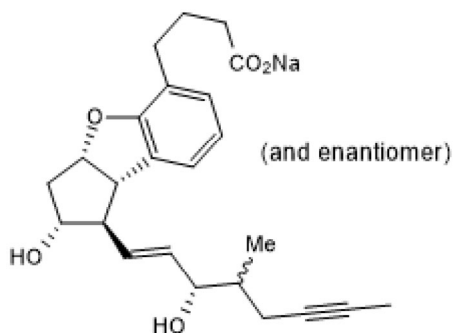
Batch No.: 3

CAS Number: 496807-11-5

IUPAC Name: *rel*-(1*R*,2*R*,3*aS*,8*bS*)-2,3,3*a*,8*b*-Tetrahydro-2-hydroxy-1-[(1*E*,3*S*)-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

Batch Molecular Formula: C₂₄H₂₉NaO₅.
Batch Molecular Weight: 420.47
Physical Appearance: White solid
Solubility: DMSO to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
Mass Spectrum: Consistent with structure

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

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Description:

Beraprost sodium is a potent IP receptor agonist; analog of Epoprostenol (Cat. No. 2989). Potently inhibits ADP-induced platelet aggregation and P-selectin expression in vitro (pIC₅₀ values are 8.26 and 8.56, respectively). Also increases vasodilation and reduces pulmonary hypertension in vivo. Orally active.

Physical and Chemical Properties:

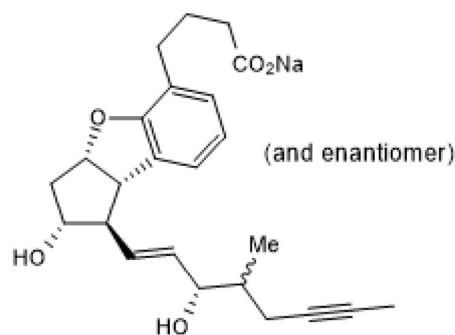
Batch Molecular Formula: C₂₄H₂₉NaO₅.

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 in lyophilized form. It may appear as a solid, gel or film and 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. *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:

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 PGI₂ derivative) on chronic hypoxic pulmonary hypertension in the rat. *Nihon Kyobu Shikkan Gakkai Zasshi.* **33** 497. PMID: 7609334.

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