

Product Name: Carboprost tromethamine

Catalog No.: 6428

Batch No.: 1

CAS Number: 58551-69-2

IUPAC Name: (5Z,9α,11α,15E,15S)-9,11,15-Trihydroxy-15-methylprosta-5,13-dien-1-oic acid tris(hydroxymethyl)aminomethane salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₆O₅.C₄H₁₁NO₃.¼H₂O

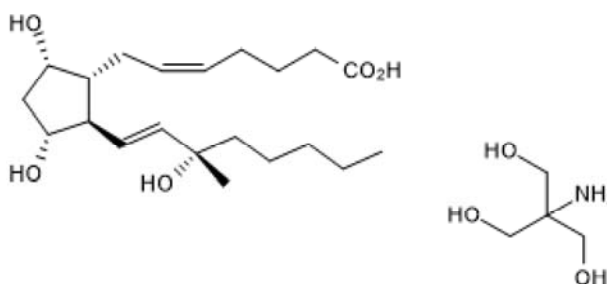
Batch Molecular Weight: 494.14

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.77	9.69	2.83
Found	60.66	9.74	2.87

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

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Description:

Synthetic analog of prostaglandin F_{2α} (PGF_{2α}, Cat. No. 4214). Increases uterine contractility in the 14-day pregnant hamster.

Physical and Chemical Properties:

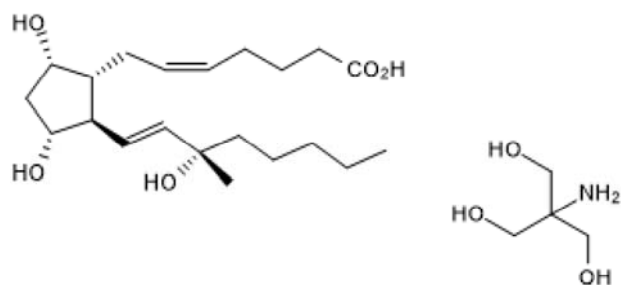
Batch Molecular Formula: C₂₁H₃₆O₅.C₄H₁₁NO₃.¼H₂O

Batch Molecular Weight: 494.14

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

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:

water to 100 mM

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:

Vickery et al (1979) Opposite and mutually antagonistic effects on uterine contractility of two epimeric forms of a synthetic prostaglandin analog. *Prostaglandins Med.* 2 3. PMID: 550139.

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