# TOCR a biotechne

# **Certificate of Analysis**

# www.tocris.com

Print Date: Jul 18th 2019

#### Product Name: Prostaglandin F<sub>2α</sub>

CAS Number:

38562-01-5

Catalog No.: 4214 EC Number: 254-002-3 Batch No.: 4

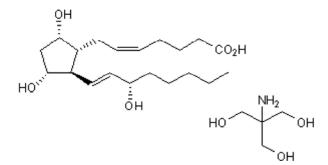
**IUPAC Name:** 9a,11a,15S-Trihydroxy-prosta-5Z,13E-dien-1-oic acid tris(hydroxymethyl)aminomethane salt

# 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** Solubility:

Storage: **Batch Molecular Structure:** 

C<sub>20</sub>H<sub>34</sub>O<sub>5</sub>.C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub> 475.62 White solid DMSO to 100 mM ethanol to 100 mM Store at -20°C



# 2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis:

Shows 98.1% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 60.61 0 54 2 04

Theoretical	00.01	9.54	2.94
Found	60.22	9.56	3.1

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

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# **Description:**

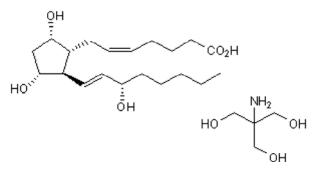
Prostaglandin  $E_2$  and  $F_{2\alpha}$  receptor agonist. Naturally-occurring prostaglandin and potent vasoconstrictor. Induces cardiomyocyte hypertrophy in vitro. Exhibits luteolytic activity.

# **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>20</sub>H<sub>34</sub>O<sub>5</sub>.C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub> Batch Molecular Weight: 475.62 Physical Appearance: White solid

# Minimum Purity: >98%

# **Batch Molecular Structure:**



# Storage: Store at -20°C

Solubility & Usage Info: DMSO to 100 mM ethanol 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:**

Girsh and Dekel (2002) Involvement of endothelin-1 and its receptors in PGF<sub>2a</sub>-induced luteolysis in the rat. Mol.Reprod.Dev. 63 71. PMID: 12211063.

Lai et al (1996) Prostaglandin F2 alpha induces cardiac myocyte hypertrophy in vitro and cardiac growth in vivo. Am.J.Physiol. 271 2197.

Samuelsson et al (1978) Prostaglandins and throboxanes. Annu.Rev.Biochem. 47 997. PMID: 209733.

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