

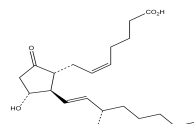
PRODUCT: Prostaglandin E2

ALTERNATE NAME: 9-Oxo-11 α ,15S-dihydroxy-prosta-5Z,13E-dien-1-oic acid; PGE₂; Dinoprostone

CATALOG #: 2268-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₃₂O₅

MOLECULAR WEIGHT: 352.47

CAS NUMBER: 363-24-6

APPEARANCE: Crystalline solid

SOLUBILITY: DMSO (~100 mg/ml) or Ethanol (~ 100 mg/ml)

PURITY: ≥98% by TLC

STORAGE: At -20°C. Protect from light and air

DESCRIPTION: Prostaglandin E₂ (PGE₂) is a primary product of arachidonic metabolism and is synthesized via the cyclooxygenase (COX) and prostaglandin synthase pathways. PGE₂ production is a commonly used method for the detection of COX-1 and COX-2 modulation and prostaglandin synthases. Its activity influences inflammation, fertility and parturition, gastric mucosal integrity, and immune modulation. The effects of PGE₂ are transduced by at least four distinct receptors designated EP₁, EP₂, EP₃, and EP₄. Regulates vertebrate haematopoietic stem cell homeostasis.

REFERENCE: North, T.S., *et al.* (2007). *Nature* **447**, 1007-1011

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Aurintricarboxylic Acid (**Cat. No. 1506-1000**)
 BODIPY-Cyclopamine (Cat. No. 2160-50, 250)
 Cyclopamine (**Cat. No. 1578-5**)
 Cyclopamine-KAAD (**Cat. No. 1910-50**)
 GANT58 (**Cat. No. 1812-5, 25**)
 GANT61 (**Cat. No. 1892-5**)
 GDC-0449 (**Cat. No. 1890-5, 25**)
 Hh Signaling Pathway Antagonist (**Cat. No. 1659-1**)
 DiscoveryPak™ hedgehog Signaling Pathway Antagonists Set (**Cat. No. K868-6**)
 (-)-Indolactam (**Cat. No. 2197-250, 1000**)
 Itraconazole (**Cat. No. 1987-50, 100, 500, 1000**)
 JK-184 (**Cat. No. 1726-1**)
 Phorbol-12-myristate-13-acetate (PMA) (**Cat. No. 1544-5**)
 Puromorphamine (**Cat. No. 1672-5**)
 Robotnikinin (**Cat. No. 1923-1**)
 SANT-1 (**Cat. No. 1978-1,5**)
 SANT-2 (**Cat. No. 1976-1, 5**)
 Smo Antagonist, SA1 (**Cat. No. 2154**)
 Smo Antagonist, SA9 (**Cat. No. 2155**)
 Smo Antagonist, SA10 (**Cat. No. 2159**)
 Sonic Hedgehog, human recombinant (**Cat. No. 4010-25, 100, 1000**)
 Sonic Hedgehog, murine recombinant (**Cat. No. 4020-25, 100, 1000**)
 Tomatidine hydrochloride (**Cat. No. 1893-25**)

USAGE: *FOR RESEARCH CH USE ONLY! Not to be used in humans*