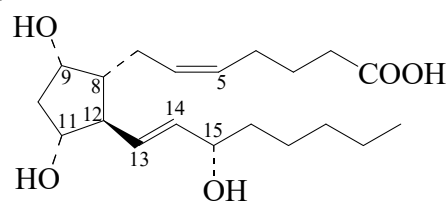




>>Entry Name: 9,11,15-Trihydroxyprosta-5,13-dienoic acid, 9Cl



(5Z,8R,9S,11R,12R,13E,15S)-form

Related CAS Registry Numbers(s): 33854-16-9 53275-58-4

Molecular Formula: C₂₀H₃₄O₅

Molecular Weight: 354.486

Accurate Mass: 354.240625

Percentage Composition: C 67.77%; H 9.67%; O 22.57%

Calculated Log P Data: Log P 1.38 (calc)

>>Variant: (5Z,8R,9S,11R,12R,13E,15S)-form

Synonym(s): (9α,11α,15α)-(5Z,13E)-form. Prostaglandin F_{2α}. PGF_{2α}. **Dinoprost**, BAN, INN, JAN. Cyclostin. Many other names

CAS Registry Number: 551-11-1

Molecular Formula: C₂₀H₃₄O₅

Molecular Weight: 354.486

Accurate Mass: 354.240625

Percentage Composition: C 67.77%; H 9.67%; O 22.57%

Biological Source: Common naturally occurring mammalian prostaglandin. Also prod. by a variety of marine algae and invertebrates

Biological Use/Importance: Abortifacient, oxytocic and smooth muscle stimulant

Physical Description: Oil or solid

Melting Point: Mp 25-35°

Optical Rotation: [α]_D²⁵+23.5 (c, 1 in THF)

Hazard & Toxicity: Gastrointestinal effects reported when used therapeutically. Human and exp. teratogen. Human and exp. reprod. effects (low doses). LD₅₀ (rat, orl) 1170 mg/kg

Sigma: P5890

>>Derivative: 2-Amino-2-hydroxymethyl-1,3-propanediol salt (1:1)

Synonym(s): Dinoprost trometamol, BAN. Dinoprost tromethamine, USAN. Lutalyse. Prostin F2 Alpha. PGF₂-α-THAM

CAS Registry Number: 38562-01-5

Biological Use/Importance: Veterinary smooth muscle activator

Physical Description: Cryst.

Hazard & Toxicity: Human and exp. reprod. effects (low doses). Exp. teratogen. LD₅₀ (rat, orl) 665 mg/kg

Fluka: 82477

Sigma: P0424

>>Derivative: Isopropyl ester

CAS Registry Number: 53764-90-2

Molecular Formula: C₂₃H₄₀O₅

Molecular Weight: 396.566

Accurate Mass: 396.287575

Percentage Composition: C 69.66%; H 10.17%; O 20.17%

Physical Description: Liq.

>>Derivative: 1,9-Lactone

CAS Registry Number: 55314-48-2

Molecular Formula: C₂₀H₃₂O₄

Molecular Weight: 336.47

Accurate Mass: 336.23006

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Physical Description: Oil which solidifies on refrigeration

Optical Rotation: [α]_D²⁰+95 (c, 3.17 in CHCl₃)