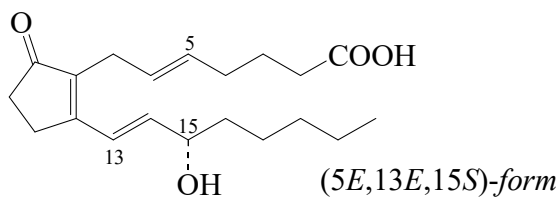




>>Entry Name: 15-Hydroxy-9-oxo-5,8(12),13-prostatrienoic acid, 9CI

Synonym(s): 7-[2-(3-Hydroxy-1-octenyl)-5-oxo-1-cyclopenten-1-yl]-5-heptenoic acid, 8CI



Molecular Formula: C₂₀H₃₀O₄

Molecular Weight: 334.455

Accurate Mass: 334.21441

Percentage Composition: C 71.82%; H 9.04%; O 19.13%

>>Variant: (5E,13E,15S)-form

Molecular Formula: C₂₀H₃₀O₄

Molecular Weight: 334.455

Accurate Mass: 334.21441

Percentage Composition: C 71.82%; H 9.04%; O 19.13%

>>Derivative: Ac, Me ester

Molecular Formula: C₂₃H₃₄O₅

Molecular Weight: 390.519

Accurate Mass: 390.240625

Percentage Composition: C 70.74%; H 8.78%; O 20.48%

Biological Source: Isol. from *Plexaura nina*

Physical Description: Yellowish oil

Optical Rotation: [α]_D²⁰ -21.8 (CHCl₃)

UV: [neutral] $\lambda_{\max}$ 253 (ϵ 1620) (hexane)

>>Variant: (5Z,13E,15S)-form

Synonym(s): Prostaglandin B₂, PGB₂

CAS Registry Number: 13367-85-6

Molecular Formula: C₂₀H₃₀O₄

Molecular Weight: 334.455

Accurate Mass: 334.21441

Percentage Composition: C 71.82%; H 9.04%; O 19.13%

Biological Source: Occurs in human seminal plasma. Most abundant prostaglandin released from osteoblasts

Use/Importance: Inhibits uterine motility (*in vitro*)

Physical Description: Cryst.

Fluka: 82473

Sigma: P5390

>>Derivative: Ac, Me ester

Molecular Formula: C₂₃H₃₄O₅

Molecular Weight: 390.519

Accurate Mass: 390.240625

Percentage Composition: C 70.74%; H 8.78%; O 20.48%

Biological Source: Isol. from the coral *Plexaura nina*

Physical Description: Yellowish oil

Optical Rotation: [α]_D²⁰ -25.5 (CHCl₃)

UV: [neutral] $\lambda_{\max}$ 253 (ϵ 1630) (hexane)

References:

Hamberg, M. *et al.*, *Prostaglandins*, *Proc. Nobel Symp.*, 2nd., 1966, 1967, 63, (*occur*)

Ger. Pat., 1970, 2 011 969; *CA*, **74**, 87486n, (*synth*)

Middleditch, B.S. *et al.*, *Lipids*, 1973, **8**, 267, (*ms*)

Feyen, J.H.M. *et al.*, *Prostaglandins*, 1984, **28**, 769, (*isol*)

Agalias, A. *et al.*, *Z. Naturforsch., C*, 2000, **55**, 425-430, (*Ac, Me ester*)