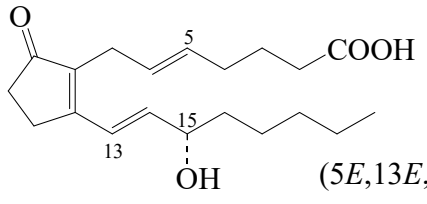
>>**Entry Name: 15-Hydroxy-9-oxo-5,8(12),13-prostatrienoic acid,** 9CI
Synonym(s): 7-[2-(3-Hydroxy-1-octenyl)-5-oxo-1-cyclopenten-1-yl]-5-heptenoic acid, 8CI



(5*E*,13*E*,15*S*)-*form*

Molecular Formula: $C_{20}H_{30}O_4$
Molecular Weight: 334.455
Accurate Mass: 334.21441
Percentage Composition: C 71.82%; H 9.04%; O 19.13%

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

Molecular Formula: $C_{20}H_{30}O_4$
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: $C_{23}H_{34}O_5$
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: $[\alpha]_D^{20}$ –21.8 ($CHCl_3$)
UV: [neutral] λ_{max} 253 (ε 1620) (hexane)

>>**Variant:** (5*Z*,13*E*,15*S*)-form
Synonym(s): Prostaglandin B_2. PGB_2

CAS Registry Number: 13367-85-6

Molecular Formula: $C_{20}H_{30}O_4$
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: $C_{23}H_{34}O_5$
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: $[\alpha]_D^{20}$ –25.5 ($CHCl_3$)
UV: [neutral] λ_{max} 253 (ε 1630) (hexane)

References:

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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)*