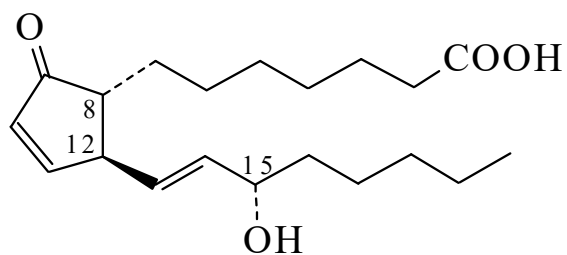




>>Entry Name: 15-Hydroxy-9-oxo-10,13-prostadienoic acid, 9Cl

Synonym(s): 2-(3-Hydroxy-1-octenyl)-5-oxo-2-cyclopentene-1-heptanoic acid, 8Cl



Molecular Formula: C₂₀H₃₂O₄

Molecular Weight: 336.47

Accurate Mass: 336.23006

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

>>Variant: (8*R*,12*S*,13*E*,15*S*)-form

Synonym(s): Prostaglandin A₁. PGA₁

CAS Registry Number: 14152-28-4

Molecular Formula: C₂₀H₃₂O₄

Molecular Weight: 336.47

Accurate Mass: 336.23006

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

Biological Source: Occurs in semen. Biosynth. from 8,11,14-Eicosatrienoic acid [CQZ45-N](#)

Use/Importance: Inhibits blood platelet aggregation and smooth muscle contraction. Stimulates renin release

Physical Description: Cryst.

Melting Point: Mp 42-44°

Solubility: BERDY SOL: Sol. CHCl₃, MeOH; fairly sol. Et₂O; poorly sol. H₂O, hexane

Hazard & Toxicity: Exp. reprod. and teratogenic effects

Fluka: 82471

Sigma: P7265

>>Variant: (8*RS*,12*SR*,13*E*,15*SR*)-form

Synonym(s): (±)-PGA₁

CAS Registry Number: 20348-61-2

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

References:

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Corey, E.J. *et al.*, *J.A.C.S.*, 1968, **90**, 3245, (synth)

Middleditch, B.S. *et al.*, *Prostaglandins*, 1973, **4**, 31, (ms)

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