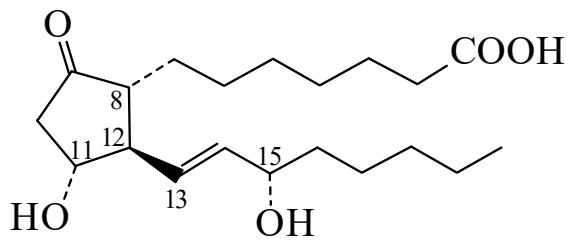
>>**Entry Name: 11,15-Dihydroxy-9-oxo-13-prostenoic acid,** 9CI



(8*R*,11*R*,12*R*,13*E*,15*S*)-*form*

Molecular Formula: $C_{20}H_{34}O_5$
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 2.26 (calc)

>>**Variant:** (8*R*,11*R*,12*R*,13*E*,15*S*)-form
Synonym(s): (8α,11α,15α)-form. Prostaglandin E_1. (–)-PGE_1. **Alprostadil,** BAN, INN, USAN**.** Minprog. Prostin VR. Caverject. U 10136. Prostivas. Muse

CAS Registry Number: 745-65-3
Type of Compound Code(s): XA5800 XA6050 XA0020 VA6100
Molecular Formula: $C_{20}H_{34}O_5$
Molecular Weight: 354.486
Accurate Mass: 354.240625
Percentage Composition: C 67.77%; H 9.67%; O 22.57%
Biological Source: Constit. of sheep's prostate and calf thymus glands. Occurs in semen
Biological Use/Importance: Vasodilator and inhibitor of platelet aggregation
Physical Description: Cryst. (EtOAc)
Development Status: Approved for clinical use in several European countries (1999)
Melting Point: Mp 114-116.5°
Optical Rotation: $[\alpha]_D^{24}$–53.2 (c, 0.977 in THF)
Hazard & Toxicity: LD_{50} (rat, orl) 228 mg/kg. Human and exp. reprod. effects. Exp. teratogen (low doses) ; BERDY HAZD : LD_{50} (rat, orl) 278 mg/kg

Fluka: 82474
Sigma: P5515

>>**Derivative:** Et ester
Synonym(s): Prostaglandin E_1 ethyl ester

CAS Registry Number: 35900-16-4
Molecular Formula: $C_{22}H_{38}O_5$
Molecular Weight: 382.539
Accurate Mass: 382.271925
Percentage Composition: C 69.08%; H 10.01%; O 20.91%
Biological Use/Importance: Inhibits human platelet aggregation
Sigma: P0815

>>**Derivative:** Compd. with α-cyclodextrin
Synonym(s): Alprostadil alfadex, BAN**.** Alprostar. Altesil. Prostandin

CAS Registry Number: 93591-00-5

>>**Variant:** (8*R*,11*S*,12*R*,13*E*,15*S*)-form
Synonym(s): 11-Epiprostaglandin E_1. 11β-PGE_1. 11-*epi*-PGE_1

CAS Registry Number: 24570-01-2
Molecular Formula: $C_{20}H_{34}O_5$
Molecular Weight: 354.486
Accurate Mass: 354.240625
Percentage Composition: C 67.77%; H 9.67%; O 22.57%
Physical Description: Granular cryst.