Prostaglandin A₁

**Catalog #** 10-4461
**Prostaglandin A₁**
**CAS#** 14152-28-4

PGA₁; 15(S)-9-Oxo-15-hydroxyprosta-10,13E-dien-1-oic acid

Lot # FBM2139

PGA₁ is a naturally occurring prostaglandin with diverse biological actions including anti-hypertensive¹,², anti-inflammatory³,⁴, anti-viral⁵,⁶, and anticancer⁷,⁸.

1) Lee et al. (1972) Renal effects of prostaglandin A1 in patients with essential hypertension; Kidney Int. 1 254
3) Rossi et al. (2000) Anti-inflammatory cyclopentenone prostaglandins are direct inhibitors of IkappaB kinase; Nature 403 103
4) Mandal et al. (2005), Yin-yang: balancing act of prostaglandins with opposing functions to regulate inflammation; J.Immunol. 175 6271
6) Tsukimoto et al. (2015) A new role for PGA1 in inhibiting hepatitis C virus-IRES-mediated translation by targeting viral translation factors; Antiviral Res. 117 1
7) Diez-Dacal et al. (2011) Identification of aldo-keto reductase AKR1B10 as a selective target for modification and inhibition by prostaglandin A(1): implications for antitumoral activity; Cancer Res. 71 4161
8) Anta et al. (2016), PGA1-induced apoptosis involves specific activation of H-Ras and N-Ras in cellular endomembranes; Cell Death Dis. 7 e2311

**PHYSICAL DATA**

Molecular Weight: 336.47
Molecular Formula: C₂₀H₃₂O₄
Purity: 99% by HPLC
NMR: (Conforms)
Solubility: DMSO (>25 mg/ml) and ethanol (>25 mg/mL)
Physical Description: Off-white solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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