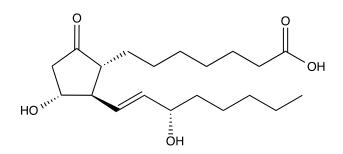


Catalog # 10-4455 Prostaglandin E₁ CAS# 745-65-3

PGE₁; Alprostadil; (11a, 13E,15S)-11,15-Dihydroxy-9-oxo-prost-13-en-1-oic acid Lot # FBS2059



PGE₁ is an endogenous prostaglandin with vasodilatory, anti-platelet, and, anti-hypertensive activities.^{1,2} It is in clinical use for the treatment of erectile dysfunction³ and the emergency management of infants with patent ductus arteriosus⁴. It has also been used in the treatment of peripheral arterial occlusive disease (PAD).⁵

- 1) Kirtland (1988) Prostaglandin E1: 1 review; Prostaglandins Leukot.Essent.Fatty Acids; 32 165
- 2) Schermuly et al. (2005) Prostanoids and Phosphodiesterase Inhibitors in Experimental Pulmonary Hypertension; Curr.Top.Dev.Biol. 67 251
- 3) Urciuoli et al (2004) Prostaglandin E1 for treatment of erectile dysfunction; Cochrane Database Syst.Rev. CD001784
- 4) Huang et al. (2013) Reappraisal of the prostaglandin E1 dose for early newborns with patent ductus arteriosus-dependent pulmonary circulation; Pediatr.Neonatol. **54** 102
- 5) Schroer and Hohlfeld (2004) *Mechanisms of anti-ischemic action of prostaglandin E1 in peripheral arterial occlusive disease;* Vasa **33** 119

PHYSICAL DATA

Molecular Weight:	354.49
Molecular Formula:	C ₂₀ H ₃₄ O ₅
Purity:	>99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml) and ethanol (15 mg/mL)
Physical Description:	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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462 www.focusbiomolecules.com