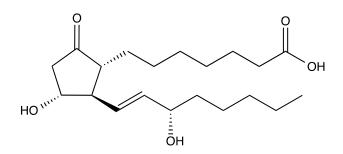


## Catalog # 10-4455 Prostaglandin E<sub>1</sub> CAS# 745-65-3

PGE<sub>1</sub>; Alprostadil; (11a, 13E,15S)-11,15-Dihydroxy-9-oxo-prost-13-en-1-oic acid Lot # FBS2059



PGE<sub>1</sub> is an endogenous prostaglandin with vasodilatory, anti-platelet, and, anti-hypertensive activities.<sup>1,2</sup> It is in clinical use for the treatment of erectile dysfunction<sup>3</sup> and the emergency management of infants with patent ductus arteriosus<sup>4</sup>. It has also been used in the treatment of peripheral arterial occlusive disease (PAD).<sup>5</sup>

- 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 <sub>20</sub> H <sub>34</sub> O <sub>5</sub>
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.

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