



LKT Laboratories, Inc.

Prostaglandin E₁

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Product Information

Product ID P6956

CAS No. 745-65-3

Chemical Name (11a,13E,15S)-11,15-Dihydroxy-9-oxoprost-13-enoic acid

Synonym Alprostadil, PGE1, Caverject, Muse, Prostandin, Prostin VR

Formula C₂₀H₃₄O₅

Formula Wt. 354.48

Melting Point 115-116 °C

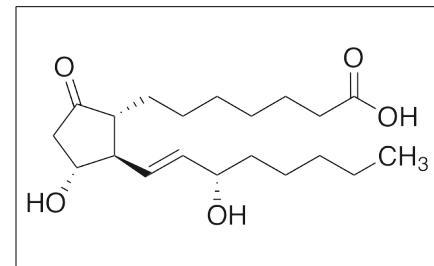
Purity ≥98%

Solubility Soluble in ethanol (5mg/mL) or acetone (10mg/mL).

Store Temp -20 °C

Ship Temp Ambient

Description Prostaglandin E1 (PGE1) is an endogenous prostaglandin synthesized from linolenic acid. PGE1 is clinically used for its vasodilatory activity as a treatment for erectile dysfunction. PGE1 also exhibits nephroprotective and pro-angiogenic activities. PGE1 decreases small intestine mucosa lesions in animal models of intestinal ischemia/reperfusion. PGE1 also improves renal function in subject with renal dysfunction or renal failure. Additionally, PGE1 enhances VEGF production in animal models of ischemia.



Bulk quantities available upon request

Product ID **Size**

P6956 1 mg

P6956 5 mg

P6956 10 mg

P6956 50 mg

References Hanchanale V, Eardley I. Alprostadil for the treatment of impotence. Expert Opin Pharmacother. 2014 Feb;15(3):421-8. PMID: 24369066.

Brasileiro JL, Inoye CM, Aydos RD, et al. Ischemia and reperfusion of rat small intestine using pentoxyfilline and prostaglandin E1. Acta Cir Bras. 2013 Nov;28(11):767-73. PMID: 24316743.

Liu WJ, Zhang BC, Guo R, et al. Renoprotective effect of alprostadil in combination with statins in patients with mild to moderate renal failure undergoing coronary angiography. Chin Med J (Engl). 2013;126(18):3475-80. PMID: 24034093.

Inoue H, Aihara M, Tomioka M, et al. Specific enhancement of vascular endothelial growth factor (VEGF) production in ischemic region by alprostadil--potential therapeutic application in pharmaceutical regenerative medicine. J Pharmacol Sci. 2013;122(2):158-61. PMID: 23728380.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.