

Product Data Sheet

Product Name: Limaprost

Cat. No.: GC36463

Chemical Properties

Cas. No. 74397-12-9

SMILES O=C(O)/C=C/CCCC[C@@H]1[C@@H]/C=C/[C@@H](O)C[C@@H](C)CCCC[C@H](O)CC1=O

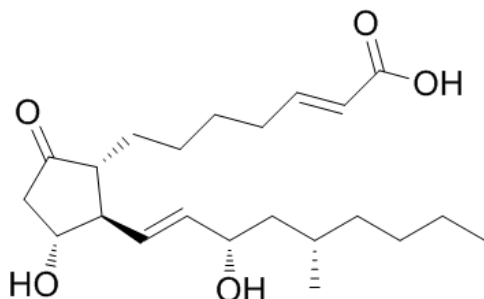
Formula $C_{22}H_{36}O_5$ M.Wt 380.52

Solubility DMSO: ≥ 40 mg/mL (105.12 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Limaprost(OP1206) is a PGE1 analog and potent platelet adhesion inhibitor. Target: Others Limaprost, an alprostadil (prostaglandin E1) analogue, is a vasodilator that increases blood flow and inhibits platelet aggregation. Limaprost is a n analog of PGE1 with structural modifications intended to give a prolonged half-life and greater potency. It is orally active in both guinea pigs and rats at doses of 100 mg/kg as an inhibitor of ADP and collagen induced platelet aggregation. It is 10-1,000 times more potent than PGE1 as a platelet adhesive inhibitor, measured in vitro. Intra-coronary injection (100

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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ng/kg) or intravenous injection (3 mg/kg) in anesthetized dogs causes vasodilation and increased coronary blood flow by 60-80%. Significant hypotensive effects were seen at 100 and 300 mg/kg orally in rats [1].

[1]. Tsuboi, T., et al., Pharmacological evaluation of OP 1206, a prostaglandin E1 derivative, as an antianginal agent. Arch Int Pharmacodyn Ther, 1980. 247(1): p. 89-102.

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