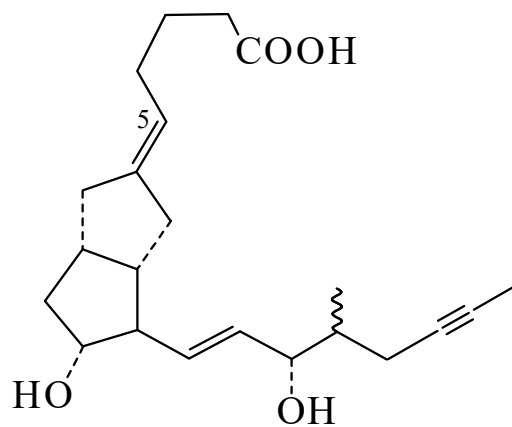




>>Entry Name: Iloprost, BAN, INN

Synonym(s): 5-[Hexahydro-5-hydroxy-4-(3-hydroxy-4-methyl-1-octen-6-ynyl)-2(1*H*)-pentalenyldiene]pentanoic acid, 9Cl. Ciloprost. ZK 36374. Ilomedin



CAS Registry Number: 78919-13-8

Related CAS Registry Numbers(s): 73873-87-7

Molecular Formula: C₂₂H₃₂O₄

Molecular Weight: 360.492

Accurate Mass: 360.23006

Percentage Composition: C 73.30%; H 8.95%; O 17.75%

Use/Importance: Prostanoid EP₁ receptor agonist. Analogue of prostacyclin with similar vasodilator activity but increased stability. Peripheral and cerebral vasodilator. Hypotensive agent. Platelet aggregation inhibitor

Development Status: Launched 1992 (Austria, New Zealand, Switzerland)

Calculated Log P Data: Log P 2.32 (calc)

>>Variant: (5*Z*)-form

Synonym(s): Isoiloprost. ZK 36375

Molecular Formula: C₂₂H₃₂O₄

Molecular Weight: 360.492

Accurate Mass: 360.23006

Percentage Composition: C 73.30%; H 8.95%; O 17.75%

Use/Importance: Shows lower biol. activity than Iloprost

Physical Description: Oil

References:

Ger. Pat., 1980, 2 845 770; *CA*, **94**, 15283, (*synth*)

Krause, W. *et al.*, *Eur. J. Clin. Pharmacol.*, 1986, **30**, 61, (*pharmacol*)

Schenker, K.V. *et al.*, *Helv. Chim. Acta*, 1986, **69**, 1718, (*cmr, pmr, config, bibl*)

Schillinger, E. *et al.*, *New Drugs Annu.: Cardiovasc. Drugs*, 1986, 209, (*rev, pharmacol, tox, metab*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1156