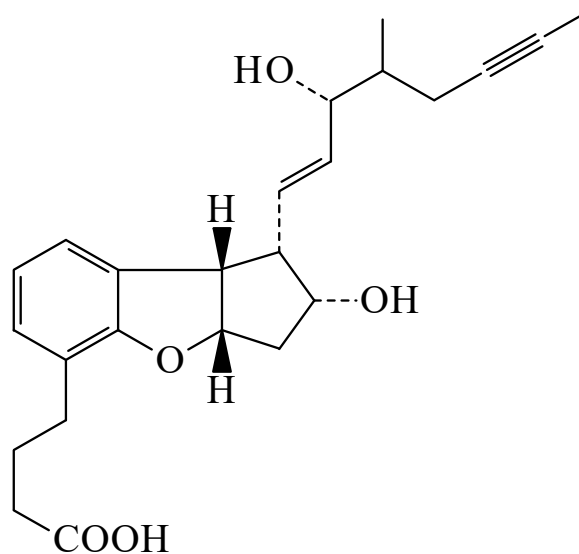




>>Entry Name: Beraprost, INN, USAN

Synonym(s): 2,3,3a,8b-Tetrahydro-2-hydroxy-1-(3-hydroxy-4-methyl-1-octen-6-ynyl)-1H-cyclopenta[b]benzofuran-5-butanoic acid. Dorner. Procylin. ML 1229. MDL 201229. TRK100



CAS Registry Number: 88430-50-6

Related CAS Registry Numbers(s): 88277-34-3 88430-51-7 94132-79-3 94132-82-8 94132-88-4

Molecular Formula: C₂₄H₃₀O₅

Molecular Weight: 398.498

Accurate Mass: 398.209325

Percentage Composition: C 72.34%; H 7.59%; O 20.07%

Use/Importance: Prostanoid receptor agonist. Platelet aggregation inhibitor, antithrombotic agent. Vasodilator

Development Status: Launched 1992 (Japan)

Calculated Log P Data: Log P 1.5 (calc)

Other Data: C-4"-epimers characterised (Mp 92-94° and Mp 123.5-124°)

Hazard & Toxicity: LD₅₀ (rat, orl) 12 mg/kg. LD₅₀ (rat, ivn) 13 mg/kg

>>Derivative: Na salt

Synonym(s): Beraprost sodium, USAN

CAS Registry Number: 88475-69-8

References:

- Eur. Pat.*, 1983, *Toray*, 84 856; *CA*, **100**, 51356m, (*synth, pmr, cmr, ir, ms*)
Umetsu, T. *et al.*, *Arzneim.-Forsch.*, 1985, **35**, 1816; 1989, **39**, 68, (*pharmacol*)
Kainoh, M. *et al.*, *Biochem. Pharmacol.*, 1991, **41**, 1135, (*pharmacol*)
Takeo, S., *Cardiovasc. Drug Rev.*, 1992, **10**, 392, (*rev*)
Sly, L.A. *et al.*, *J. Chromatogr.*, 1993, **641**, 249, (*isomers*)
Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 1149
Ueno, Y. *et al.*, *Thromb. Res.*, 1995, **77**, 193
Wakita, H. *et al.*, *Tetrahedron*, 1999, **55**, 2449-2474, (*synth, pmr, ir*)