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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

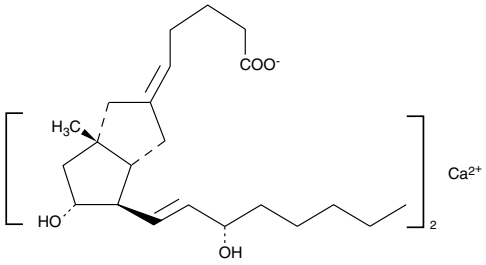
linkedin.com/company/szaboscandic

Product Information

Ciprostene (calcium salt)

Item No. 18216

CAS Registry No.: 81703-55-1
Formal Name: 6,9α-methylene-9β-methyl-11α,15S-dihydroxy-prosta-5Z,13E-dien-1-oic acid, monocalcium salt
Synonyms: Ciprostene calcium, U-61431F
MF: $[C_{22}H_{35}O_4]_2 \bullet Ca^{2+}$
FW: 767.1
Purity: ≥98%
Stability: ≥6 months at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that Ciprostene (calcium salt) (ciprostene) be stored as supplied at -20°C. It should be stable for at least six months.

Ciprostene is supplied as a crystalline solid. Stock solutions of ciprostene can be made by dissolving the crystalline compound in the solvent of choice. Solvents such as ethanol, DMSO, or dimethyl formamide purged with an inert gas can be used. The solubility of ciprostene in these solvents is approximately 16 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free aqueous solution of ciprostene is needed, it can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of ciprostene in PBS (pH 7.2) is approximately 275 µg/ml. Store aqueous solutions of ciprostene on ice and use within 12 hours of preparation. Although the aqueous solutions of ciprostene may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

Ciprostene is a stable analog of prostaglandin I_2 (PGI_2). Ciprostene exhibits biological activity similar to PGI_2. In patas monkeys, ciprostene induces hypotension in a dose dependent manner.[1] It also causes tachycardia when administered at a dose of 0.16 µg/kg/min.[1] In addition, ciprostene inhibits ADP-induced platelet aggregation *ex vivo* and *in vitro* with ID_{50} values of 9.1 µg/kg/min and 60 ng/ml, respectively.[1-2]

References

1. Allan, G., Follenfant, M.J., Lidbury, P., *et al.* The cardiovascular and platelet actions of 9β-methyl carbacyclin (ciprostene), a chemically stable analogue of prostacyclin, in the dog and monkey. *Br. J. Pharmacol.* **85,** 547-555 (1985).
2. Aristoff, P.A., Johnson, P.D., Harrison, A.W. Synthesis of 9-substituted carbacyclin analogues. *J. Org. Chem.* **48,** 5341-5348 (1983).

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Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com