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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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

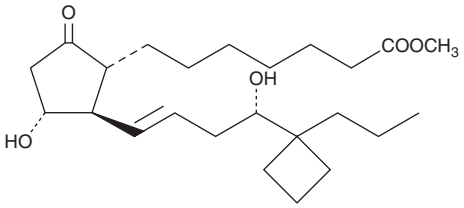
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Butaprost

Item No. 13740

CAS Registry No.:	69685-22-9
Formal Name:	9-oxo-11α,16S-dihydroxy-17-cyclobutyl-prost-13E-en-1-oic acid, methyl ester
Synonyms:	15-deoxy-16S-hydroxy-17-cyclobutyl PGE_1 methyl ester; TR 4979
MF:	$C_{24}H_{40}O_5$
FW:	408.6
Purity:	≥98%
Supplied as:	A solution in methyl acetate
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Butaprost is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of butaprost in these solvents is approximately 25 mg/ml. Butaprost is stable for at least six months in these solvents if stored at -20°C.

Butaprost is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of butaprost should be diluted with the aqueous buffer of choice. Butaprost has a solubility of approximately 0.15 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Butaprost, a structural analog of PGE_2, is a selective agonist for the EP_2 receptor subtype. EP_2 receptors are expressed on human neutrophils and on respiratory, vascular, and uterine smooth muscle.[1,2] Butaprost binds with about 1/10 the affinity of PGE_2 to the recombinant murine EP_2 receptor, and does not bind appreciably to the other murine EP receptors or the DP, TP, FP, and IP receptors.[3] The EC_{50} for the stimulation of cAMP by butaprost in COS cells transfected with the human EP_2 receptor is about 5 µM, while the EC_{50} for PGE_2 in this assay is about 43 nM.[1] Butaprost has frequently been used to pharmacologically define the EP receptor expression profile of various human and animal tissues and cells.[4]

References

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2. Talpain, E., Armstrong, R.A., Coleman, R.A., *et al. Br. J. Pharmacol.* **114**, 1459-1465 (1995).
3. Kiriyama, M., Ushikubi, F., Kobayashi, T., *et al. Br. J. Pharmacol.* **122**, 217-224 (1997).
4. Lawrence, R.A. and Jones, R.L. *Br. J. Pharmacol.* **105**, 817-824 (1992).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM