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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- 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](https://www.linkedin.com/company/szaboscandic) 

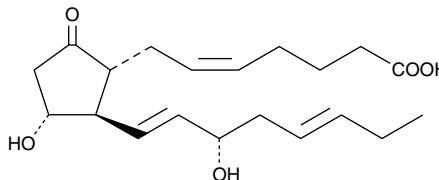
Product Information



17-*trans* Prostaglandin E₃

Item No. 14995

CAS Registry No.: 210979-33-2
Formal Name: 9-oxo-11 α ,15S-dihydroxy-prosta-5Z,13E,17E-trien-1-oic acid
Synonym: 17-*trans* PGE₃
MF: C₂₀H₃₀O₅
FW: 350.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

17-*trans* Prostaglandin E₃ (17-*trans* PGE₃) is an isomer of PGE₃ which could theoretically result from the cyclooxygenase metabolism of dietary *trans*-fatty acids.¹ For long term storage, we suggest that 17-*trans* PGE₃ be stored as supplied at -20°C. It will be stable for at least one year.

17-*trans* PGE₃ 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 17-*trans* PGE₃ in these solvents is approximately 100 mg/ml. 17-*trans* PGE₃ is stable for at least six months in these solvents if stored at -20°C.

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 solution of 17-*trans* PGE₃ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 17-*trans* PGE₃ in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

There are no published reports on the biological activity of 17-*trans* PGE₃.

Reference

1. Ratnayake, W.M.N., Chen, Z.Y., Pelletier, G., *et al.* Occurrence of 5c,8c,11c,15t -eicosatetraenoic acid and other unusual polyunsaturated fatty acids in rats fed partially hydrogenated canola oil. *Lipids* **29**, 707-714 (1994).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14995

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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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