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

Product Information



Prostaglandin B_x

Item No. 11510

CAS Registry No.:	39306-29-1
MF:	(PGB) _n n=3-5
FW:	1,000-1,500
Purity:	Mixture of oligomers
Stability:	≥1 year at -20°C
Supplied as:	A solution in ethanol
UV/Vis.:	λ _{max} : 236 nm

Laboratory Procedures

For long term storage, we suggest that Prostaglandin B_x (PGB_x) be stored as supplied at -20°C. It should be stable for at least one year.

PGB_x is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO or dimethyl formamide purged with an inert gas can be used. The solubility of PGB_x in these solvents is approximately 100 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. Organic solvent-free solutions of PGB_x can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of PGB_x in PBS (pH 7.2) is approximately 3.8 mg/ml. We do not recommend storing the aqueous solution for more than one day.

PGB_x is a mixture of oligomers of PGB₁ with a molecular weight of 1,000-1,500. PGB_x has antioxidant and free radical trapping activity that was first studied in isolated mitochondria.¹ It has anti-inflammatory and cytoprotective activity which may be attributed to inhibition of the 14 kDa sPLA₂.^{2,3} At a dose of 1 mg/kg, PGB_x significantly reduces the incidence of ulcers in rats.²

References

1. Polis, B.D., Polis, E., and Kwong, S. Protection and reactivation of oxidative phosphorylation in mitochondria by a stable free-radical prostaglandin polymer (PGB_x). *Proc. Natl. Acad. Sci. USA* **76**, 1598-1602 (1979).
2. Kumashiro, R., Devlin, T.M., Kholoussy, A.M., *et al.* Prostaglandin B_x in the prevention of stress ulcers in rats. *Int. Surg.* **70**, 247-250 (1985).
3. Franson, R.C., Rosenthal, M.D., and Regelson, W. Mechanism(s) of cytoprotective and anti-inflammatory activity of PGB₁ oligomers: PGB_x has potent anti-phospholipase A₂ and anti-oxidant activity. *Prostaglandins Leukot. Essent. Fatty Acids* **43**, 63-70 (1991).

Additional Reading

1. Ohnishi, S.T., Barr, J.K., Katagi, C., *et al.* Protection of rat spinal cord against contusion injury by new prostaglandin derivatives. *Arzneimittelforschung* **39**, 236-239 (1989).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11510

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

MATERIAL 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 Material 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