

Prostaglandin Bx

Chemical Properties

CAS No. : 39306-29-1

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Prostaglandin Bx

Biological Description

Description	PGBx is a mixture of oligomers of PGB1 with a molecular weight of 1,000-1,500. It has antioxidant and free radical trapping activity that was first studied in isolated mitochondria.1 PGBx 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, PGBx significantly reduces the incidence of ulcers in rats.2
Targets(IC50)	Others,Mitochondrial Metabolism

Solubility Information

Solubility	Ethanol: >100 mg/mL,Sonication is recommended. DMSO: >100 mg/mL,Sonication is recommended. DMF: >100 mg/mL,Sonication is recommended. PBS (pH 7.2): 3.8 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

- Polis, B.D., Polis, E., and Kwong, S. Protection and reactivation of oxidative phosphorylation in mitochondria by a stable free-radical prostaglandin polymer (PGBX). Proceedings of the National Academy of Sciences of the United States of America 76, 1598-1602 (1979).
- Kumashiro, R., Devlin, T.M., Kholoussy, A.M., et al. Prostaglandin BX in the prevention of stress ulcers in rats. International Surgery 70, 247-250 (1985).
- Franson, R.C., Rosenthal, M.D., and Regelson, W. Mechanism(s) of cytoprotective and anti-inflammatory activity of PGB1 oligomers: PGBx has potent anti-phospholipase A2 and anti-oxidant activity. Prostaglandins, Leukotrienes and Essential Fatty Acids 43, 63-70 (1991).

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481