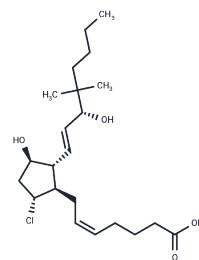


Nocloprost

Chemical Properties

CAS No. :	79360-43-3
Formula:	C ₂₂ H ₃₇ ClO ₄
Molecular Weight:	400.98
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Nocloprost (SH 475) is a prostaglandin E2 (PGE2) analog, an EP1 and EP3 receptor agonist with local gastric protection and ulcer healing activity, reducing aspirin-induced gastrointestinal lesions, and inducing platelet activation, useful for studying cardiovascular diseases.
Targets(IC50)	Prostaglandin Receptor
In vitro	In platelet-rich citrate plasma, Nocloprost (> 0.1 μmol/l) causes aggregation of biphasic processes at higher concentrations. Nocloprost activation of platelets is accompanied by thromboxen A2 formation and an increase in cytoplasmic calcium in platelets containing Indo 1. Nocloprost(0.1 μM/L) enhanced aggregation induced by low concentrations of ADP or adrenaline. [2]
In vivo	Nocloprost (0.01-100 μg/kg, intragastric administration) is dose-dependent in preventing the formation of gastric lesions. Nocloprost (0.01-100 μg/kg, gavage) did not affect gastric acid secretion or intestinal secretion in rats, but prevented the increase of gastroduodenal alkaline secretion. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4939 mL	12.4694 mL	24.9389 mL
5 mM	0.4988 mL	2.4939 mL	4.9878 mL
10 mM	0.2494 mL	1.2469 mL	2.4939 mL
50 mM	0.0499 mL	0.2494 mL	0.4988 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Konturek SJ, et al. Nocloprost, a unique prostaglandin E2 analog with local gastroprotective and ulcer-healing activity. *Eur J Pharmacol.* 1991 Apr 3;195(3):347-57.

Glusa E, et al. Activation of human blood platelets induced by nocloprost, a stable prostaglandin E2 derivative. *Haemostasis.* 1993 Jul-Aug;23(4):203-11.

Konturek SJ, Kwiecien N, Obtulowicz W, Maczka J, Hebzda Z, Oleksy J. Effects of nocloprost on gastric functions in man. *Scand J Gastroenterol.* 1991 Nov;26(11):1145-51. PubMed PMID: 1754849.

Zaffaroni N, Villa R, Orlandi L, De Pascale A, Del Mastro S, Silvestrini R. Differential effect of 9 beta-chloro-16, 16-dimethyl prostaglandin E2 (nocloprost) on the radiation response of human normal fibroblasts and colon adenocarcinoma cells. *Radiat Res.* 1993 Jul;135(1):88-92. PubMed PMID: 8327666.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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