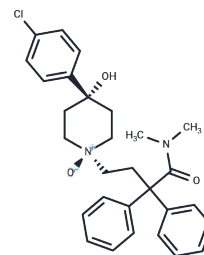


Loperamide oxide

Chemical Properties

CAS No. :	106900-12-3
Formula:	C ₂₉ H ₃₃ ClN ₂ O ₃
Molecular Weight:	493.04
Storage:	Keep away from moisture 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	Loperamide oxide (R 58425) is a secreted antidiarrheal agent that increases peristalsis and inhibits intestinal absorption of water and ions and is used in the study of chronic diarrhea in patients with Crohn's disease.
Targets(IC50)	Others,Opioid Receptor
In vivo	The effects of Loperamide oxide on basal and prostaglandin E2-stimulated fluid transport by rat small intestine have been investigated. In contrast to Loperamide, Loperamide oxide, when applied intraperitoneally, failed to inhibit either basal or prostaglandin E2-stimulated fluid transport. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0282 mL	10.1412 mL	20.2823 mL
5 mM	0.4056 mL	2.0282 mL	4.0565 mL
10 mM	0.2028 mL	1.0141 mL	2.0282 mL
50 mM	0.0406 mL	0.2028 mL	0.4056 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

Hardcastle J, et al. The effect of loperamide oxide on prostaglandin-stimulated fluid transport in rat small intestine. *J Pharm Pharmacol*. 1990 May;42(5):364-6.

Kamali F, et al. Increased systemic availability of loperamide after oral administration of loperamide and loperamide oxide with cotrimoxazole. *Br J Clin Pharmacol*. 1996 Feb;41(2):125-8.

Stacher G, Steinringer H, Schneider C, Vacariu-Granser GV, Castiglione F, Gaupmann G, Weber U, Stacher-Janotta G. Effects of the prodrug loperamide oxide, loperamide, and placebo on jejunal motor activity. *Dig Dis Sci*. 1992 Feb;37(2):198-204. PubMed PMID: 1735336.

Dreverman JW, Van der Poel AJ. Loperamide oxide in acute diarrhoea: a double-blind, placebo-controlled trial. The Dutch Diarrhoea Trialists Group. *Aliment Pharmacol Ther*. 1995 Aug;9(4):441-6. PubMed PMID: 8527621.

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