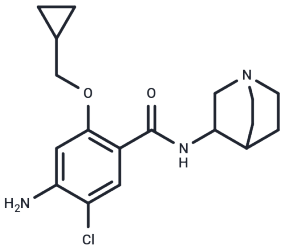
Data Sheet (Cat.No.T16433)

TargetMol

Pancopride

Chemical Properties



CAS No. : 121650-80-4

Formula: C18H24ClN3O2

Molecular Weight: 349.86

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Pancopride(LAS 30451) is a novel, orally available, long-acting, selective 5-HT3 receptor antagonist that blocks nitrogen mustard and dacarbazine-induced vomiting.
Targets(IC50)	5-HT Receptor
In vitro	Pancopride, a new potent and selective 5-HT3 receptor antagonist, is effective orally and parenterally against cytotoxic drug-induced emesis. It exhibited high affinity (Ki=0. 40 nM) for [3H]GR65630-labelled 5-HT3 recognition sites in membranes from the cortex of rat brains[2].
In vivo	Pancopride, when administered i.v. 5 minutes before 5-HT challenge, antagonizes 5-HT-induced bradycardia in anaesthetized rats (ID50=0.56 μg/kg) and, when given p.o. 60 minutes before 5-HT challenge, displays similar antagonistic effects (ID50=8.7 μg/kg). A single oral dose of Pancopride (10 μg/kg) significantly inhibits the bradycardic reflex over an 8-hour period. In dogs, Pancopride dose-dependently inhibits the number of vomiting episodes and delays the onset of vomiting induced by cisplatin (ID50=3.6 μg/kg i.v. and 7.1 μg/kg p.o.)[1]. Pancopride not only inhibits vomiting induced by cisplatin in dogs but is also effective in blocking mechloretamine- and dacarbazine-induced emesis without exhibiting any antidopaminergic activity. Additionally, Pancopride stimulates gastric emptying of glass beads in rats (DE50=0.032 mg/kg p.o.). Furthermore, Pancopride (1 mg/kg i.p.) reverses cisplatin-induced slowing of gastric emptying in rats[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8583 mL	14.2914 mL	28.5829 mL
5 mM	0.5717 mL	2.8583 mL	5.7166 mL
10 mM	0.2858 mL	1.4291 mL	2.8583 mL
50 mM	0.0572 mL	0.2858 mL	0.5717 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

Grande L, et al. Lack of effect of a 5-HT3 antagonist, pancopride, on lower oesophageal sphincter pressure in volunteers. Br J Clin Pharmacol. 1995 Oct;40(4):401-3.
Fernández AG, et al. Pancopride, a potent and long-acting 5-HT3 receptor antagonist, is orally effective against anticancer drug-evoked emesis. Eur J Pharmacol. 1992 Nov 10;222(2-3):257-64.