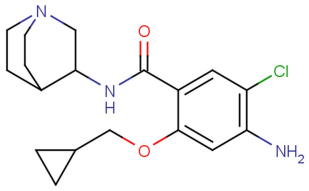
Data Sheet (Cat.No.T16433)

TargetMol
A DRUG SCREENING EXPERT

Pancopride

Chemical Properties



CAS No.:	121650-80-4
Formula:	C18H24ClN3O2
Molecular Weight:	349.86
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Pancopride is a new effective and selective antagonist of the 5-HT3 receptor.
Targets(IC_{50})	5-HT3 receptor: None
In vitro	Pancopride is orally and parenterally effective against cytotoxic drug-induced emesis. Pancopride showed high affinity (Ki=0.40 nM) for [3H]GR65630-labelled 5-HT3 recognition sites in membranes from the cortex of rat brains[1].
In vivo	Pancopride inhibits vomiting induced by cisplatin in dogs and is also effective in blocking mechloretamine- and dacarbazine-induced emesis lacking any antidopaminergic activity. Pancopride dose-dependently inhibited the number of vomiting episodes and delayed the onset of vomiting induced by cisplatin in dogs (ID50=3.6 μg/kg i.v. and 7.1 μg/kg p.o.). Pancopride stimulates gastric emptying of glass beads in the rat (DE50=0.032 mg/kg p.o.). Pancopride (1 mg/kg i.p.) also reverses cisplatin-induced slowing of gastric emptying in the rat. When administered i.v. 5 min (ID50=0.56 μg/kg) or p.o. 60 min (ID50=8.7 μg/kg) before 5-HT challenge, Pancopride antagonizes 5-HT-induced bradycardia in anaesthetized rats. A single oral dose (10 μg/kg) of Pancopride produced a significant inhibition of the bradycardic reflex over an 8-h period [1][2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.858 mL	14.291 mL	28.583 mL
5 mM	0.572 mL	2.858 mL	5.717 mL
10 mM	0.286 mL	1.429 mL	2.858 mL
50 mM	0.057 mL	0.286 mL	0.572 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. 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.

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