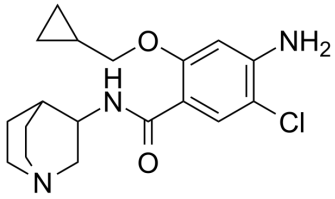
Pancopride

Cat. No.:	HY-19684
CAS No.:	121650-80-4
Molecular Formula:	$C_{18}H_{24}ClN_3O_2$
Molecular Weight:	349.86
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pancopride is a new potent and selective 5-HT_3 receptor antagonist.
IC_{50} & Target	5-HT_3 Receptor
In Vitro	Pancopride is a new potent and selective 5-HT_3 receptor antagonist, orally and parenterally effective against cytotoxic drug-induced emesis. Pancopride displayed high affinity (K_i=0.40 nM) for [^{3}H]GR65630-labelled 5-HT_3 recognition sites in membranes from the cortex of rat brains[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Pancopride antagonizes 5-HT-induced bradycardia in anaesthetized rats when administered i.v. 5 min (ID_{50}=0.56 μg/kg) or p.o. 60 min (ID_{50}=8.7 μg/kg) before 5-HT challenge. A single oral dose (10 μg/kg) of Pancopride produced a significant inhibition of the bradycardic reflex over an 8-h period. Pancopride dose dependently inhibited the number of vomiting episodes and delayed the onset of vomiting induced by cisplatin in dogs (ID_{50}=3.6 μg/kg i.v. and 7.1 μg/kg p.o.)[1]. Pancopride inhibits vomiting induced by cisplatin in dogs and is also effective in blocking mechloretamine- and dacarbazine-induced emesis lacking any antidopaminergic activity. Pancopride stimulates gastric emptying of glass beads in the rat (DE_{50}=0.032 mg/kg p.o.). Pancopride (1 mg/kg i.p.) also reverses cisplatin induced slowing of gastric emptying in the rat[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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