

---

## Product Data Sheet

---

Product Name: Pancopride (LAS 30451)

Cat. No.: GC31022

### Chemical Properties

Cas. No. 121650-80-4

SMILES O=C(NC1CN2CCC1CC2)C3=CC(Cl)=C(N)C=C3OCC4CC4

Formula  $C_{18}H_{24}ClN_3O_2$  M.Wt 349.86

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Pancopride is a new potent and selective 5-HT<sub>3</sub> receptor antagonist.

Pancopride is a new potent and selective 5-HT<sub>3</sub> receptor antagonist, orally and parenterally effective against cytotoxic drug-induced emesis. Pancopride displayed high affinity ( $K_i=0.40$  nM) for [<sup>3</sup>H]GR65630-labelled 5-HT<sub>3</sub> recognition sites in membranes from the cortex of rat brains[1].

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 mechlorethamine- 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].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

[1]. Fernández AG, et al. Pancopride, a potent and long-acting 5-HT<sub>3</sub> 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-HT<sub>3</sub> 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.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**