

Product Name: Zacopride hydrochloride

Catalog No.: 1795

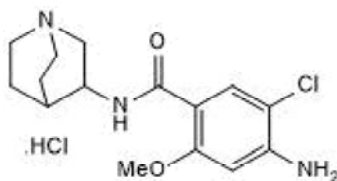
Batch No.: 4

CAS Number: 101303-98-4

IUPAC Name: (±)-4-Amino-*N*-1-azabicyclo[2.2.2]oct-3-yl-5-chloro-2-methoxybenzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₀ClN₃O₂.HCl.H₂O
Batch Molecular Weight: 364.28
Physical Appearance: Off White solid
Solubility: water to 100 mM
 phosphate buffered saline to 100 mM
 DMSO to 100 mM
 ethanol to 75 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.46	6.36	11.54
Found	49.27	6.34	11.33

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Highly potent 5-HT₃ receptor antagonist (K_i = 0.38 nM) and 5-HT₄ receptor agonist (K_i = 373 nM). Antiemetic and anxiolytic following systemic administration in vivo.

Physical and Chemical Properties:

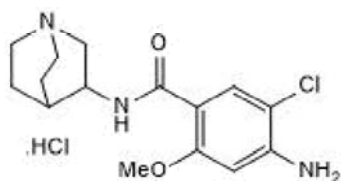
Batch Molecular Formula: C₁₅H₂₀ClN₃O₂.HCl.H₂O

Batch Molecular Weight: 364.28

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
phosphate buffered saline to 100 mM
DMSO to 100 mM
ethanol to 75 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Nagakura et al (1999) Pharmacological properties of a novel gastrointestinal prokinetic benzamide selective for human 5-HT₄ receptor versus human 5-HT₃ receptor. *Pharmacol.Res.* **39** 375. PMID: 10328995.

Kii and Ito (1997) Effects of 5-HT₄-receptor agonists, cisapride, mosapride citrate, and zacopride, on cardiac action potentials in guinea pig isolated papillary muscles. *J.Cardiovasc.Pharmacol.* **29** 670. PMID: 9213211.

Cohen et al (1989) Comparison of the 5-HT₃ receptor antagonist properties of ICS 205-930, GR38032F and zacopride. *J.Pharmacol.Exp.Ther.* **248** 197. PMID: 2521513.

Costall et al (1988) Zacopride: anxiolytic profile in rodent and primate models of anxiety. *J.Pharm.Pharmacol.* **40** 302. PMID: 2900320.

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