Product Name: Zacopride hydrochloride
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: \( \text{C}_{15}\text{H}_{20}\text{ClN}_{3}\text{O}_{2}\cdot \text{HCl}\cdot 1\frac{1}{4}\text{H}_{2}\text{O} \)
Batch Molecular Weight: 368.78
Physical Appearance: 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

2. ANALYTICAL DATA

TLC: \( R_f = 0.6 \) (Chloroform:Methanol:Ammonia soln. [90:10:0.1])
HPLC: Shows 99.9% purity
\(^1\text{H NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

\[
\begin{array}{ccc}
\text{Theoretical} & 48.86 & 6.42 & 11.39 \\
\text{Found} & 48.65 & 6.24 & 11.24 \\
\end{array}
\]

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

**Product Name:** Zacopride hydrochloride

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

**Catalog No.:** 1795  
**Batch No.:** 3

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

### Physical and Chemical Properties:
- **Batch Molecular Formula:** C₁₇H₁₉ClN₂O₂.HCl.1¼H₂O
- **Batch Molecular Weight:** 368.78
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

### Batch Molecular Structure:

![](image)

### 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: