

Certificate of Analysis

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Product Name: Mosapride citrate

Catalog No.: 2844

Batch No.: 1

CAS Number: 112885-42-4

IUPAC Name: 4-Amino-5-chloro-2-ethoxy-N-[[4-[(4-fluorophenyl)methyl]-2-morpholinyl]methyl]benzamide citrate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{25}ClFN_3O_3 \cdot C_6H_8O_7 \cdot 2H_2O$

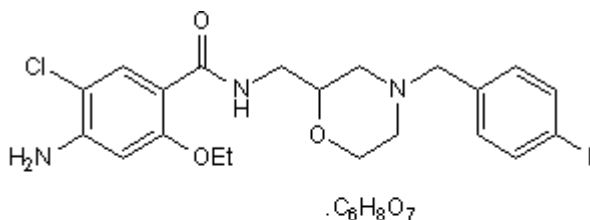
Batch Molecular Weight: 650.05

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Desiccate at RT

Batch Molecular Structure:



$C_{21}H_{25}ClFN_3O_3$
Exact Mass: 421.16
Mol. Wt.: 421.89

2. ANALYTICAL DATA

HPLC: Shows >99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.89	5.74	6.46
Found	49.72	5.7	6.21

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Description:

5-HT₄ receptor agonist and 5-HT₃ receptor antagonist. Displays no activity at D₂, α₁, α₂, 5-HT₁ and 5-HT₂ receptors. Gastroprokinetic agent; increases gastric emptying in rats and stimulates gastric motor activity in conscious dogs.

Physical and Chemical Properties:

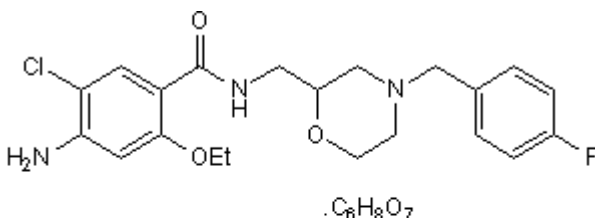
Batch Molecular Formula: C₂₁H₂₅ClFN₃O₃·C₆H₈O₇·2H₂O

Batch Molecular Weight: 650.05

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



C₂₁H₂₅ClFN₃O₃
Exact Mass: 421.16
Mol. Wt.: 421.89

Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 10 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:

Yoshida et al (1989) AS-4370, a novel gastrokinetic agent free of dopamine D₂ receptor antagonist properties. Arch.Int.Pharmacodyn.Ther. **300** 51. PMID: 2533479.

Yoshida et al (1993) Pharmacological effects of the new gastroprokinetic agent mosapride citrate and its metabolites in experimental animals. Arzneim.-Forsch. **43** 1078.

Mine et al (1997) Comparison of effect of mosapride citrate and existing 5-HT₄ receptor agonists on gastrointestinal motility *in vivo* and *in vitro*. J.Pharmacol.Exp.Ther. **283** 1000. PMID: 9399969.

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