1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{21}\text{H}_{25}\text{ClFN}_{3}\text{O}_{3}.\text{C}_{6}\text{H}_{8}\text{O}_{7}.2\text{H}_{2}\text{O} \)

Batch Molecular Weight: 650.05

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccated at RT

Batch Molecular Structure:

![Molecular Structure](image)

2. ANALYTICAL DATA

HPLC: Shows >99.8% purity

\( ^1\text{H} \text{NMR:} \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>49.89</td>
<td>5.74</td>
<td>6.46</td>
</tr>
<tr>
<td>Found</td>
<td>49.72</td>
<td>5.7</td>
<td>6.21</td>
</tr>
</tbody>
</table>

Certificate of Analysis

Print Date: Jan 15th 2016

www.tocris.com

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

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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

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: C21H25ClF3N3O3  
Batch Molecular Weight: 650.05  
Physical Appearance: White solid

Minimum Purity: >99%

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:
