Product Name: Domperidone

CAS Number: 57808-66-9

IUPAC Name: 5-Chloro-1-[1-[3-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)propyl]-4-piperidinyl]-1,3-dihydro-2H-benzimidazol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{22}H_{24}ClN_{5}O_{2}

Batch Molecular Weight: 425.92

Physical Appearance: White solid

Solubility: 1eq. HCl to 5 mM
DMSO to 100 mM
ethanol to 5 mM

Storage: Store at RT

2. ANALYTICAL DATA

Melting Point: Between 244 - 246°C

HPLC: Shows >99.5% purity

^1^H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>62.04</td>
<td>61.93</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.68</td>
<td>5.74</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>16.44</td>
<td>16.4</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Domperidone

Catalog No.: 2536  
Batch No.: 1

CAS Number: 57808-66-9
IUPAC Name: 5-Chloro-1-[1-[3-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)propyl]-4-piperidinyl]-1,3-dihydro-2H-benzimidazol-2-one

Description:
Peripheral dopamine D₂-like receptor antagonist that does not readily cross the blood brain barrier. Displays gastroprokinetic and antiemetic properties; increases the frequency and duration of antral and duodenal contractions and protects from apomorphine-induced emesis (ED₅₀ values are 0.003 and 0.03 mg/kg for i.v. and oral administration respectively).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₂H₂₅ClN₅O₂
Batch Molecular Weight: 425.92
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
1eq. HCl to 5 mM
DMSO to 100 mM
ethanol to 5 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: