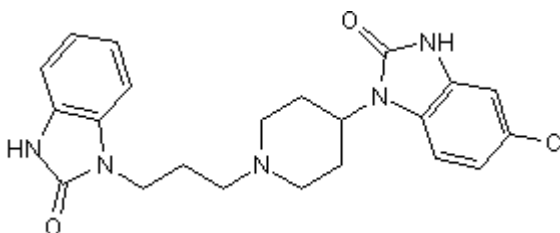


Product Name: Domperidone **Catalog No.:** 2536 **Batch No.:** 1
CAS Number: 57808-66-9
IUPAC Name: 5-Chloro-1-[1-[3-(2,3-dihydro-2-oxo-1*H*-benzimidazol-1-yl)propyl]-4-piperidinyl]-1,3-dihydro-2*H*-benzimidazol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₄ClN₅O₂
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
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 244 - 246°C
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	62.04	5.68	16.44
Found	61.93	5.74	16.4

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:

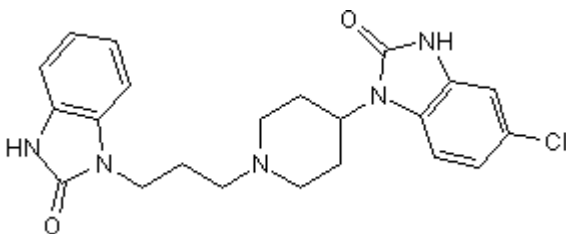
Peripheral dopamine D₂-like receptor antagonist that does not readily cross the blood brain barrier. Displays gastroprokinetic and antiemetic properties; increases the frequency and duration of antral and duodenal contractions and protects from apomorphine-induced emesis (ED₅₀ values are 0.003 and 0.03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

Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₂₄ClN₅O₂
 Batch Molecular Weight: 425.92
 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Neimegeers et al (1980) The antiemetic effects of domperidone, a novel potent gastrokinetic. *Arch.Int.Pharmacodyn.Ther.* **244** 130. PMID: 7416883.
Prakash and Wagstaff (1998) Domperidone. A review of its use in diabetic gastropathy. *Drugs* **56** 429. PMID: 9777316.
Osinski et al (2005) Dopamine D₂, but not D₄, receptor agonists are emetogenic in ferrets. *Pharmacol.Biochem.Behav.* **81** 211. PMID: 15894081.

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.

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