

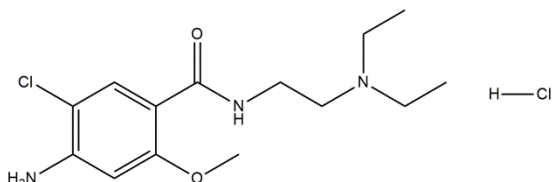
# Metoclopramide Hydrochloride

02/21

**ALTERNATE NAMES:** 4-amino-5-chloro-N-[2-(diethylamino)ethyl]-2-methoxybenzamide;hydrochloride; 4-Amino-5-chloro-N-(2-(diethylamino)ethyl)-o-anisamide hydrochloride; Maxolon

**CATALOG #:** B3112-1G 1 g  
B3112-5G 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>14</sub>H<sub>23</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>

**MOLECULAR WEIGHT:** 336.26

**CAS NUMBER:** 7232-21-5

**APPEARANCE:** White to off-white crystalline powder

**PURITY:** ≥ 98%

**SOLUBILITY:** ~10 mg/ml in PBS pH 7.2  
~20 mg/ml in DMSO, ethanol or DMF

**DESCRIPTION:** Metoclopramide is a 5-hydroxytryptamine (serotonin) 5-HT<sub>3</sub> receptor antagonist and dopamine D<sub>2</sub> receptor antagonist. Metoclopramide inhibits 5-HT<sub>3</sub> receptor and Dopamine D<sub>2</sub> receptor binding affinity with IC<sub>50</sub> values of 308 nM and 483 nM, in rat brain cortical membranes and synaptic membranes respectively. It is used as a stimulant of upper gastrointestinal motility and as an antiemetic agent.

**STORAGE TEMPERATURE:** -20 °C

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCE:** Hirokawa, Y., Harada, H., Yoshikawa, T., et al. Synthesis and structure-activity relationships of 4-amino-5-chloro-N-(1,4-dialkylhexahydro-1,4-diazepin-6-yl)-2-methoxybenzamide derivatives, novel and potent serotonin 5-HT<sub>3</sub> and dopamine D<sub>2</sub> receptors dual antagonist. Chem. Pharm. Bull. (Tokyo) 50(7), 941-959 (2002).

**RELATED PRODUCTS:**

Granisetron Hydrochloride (Cat. No. B3205)  
 Olanzapine (Cat. No. B2677)  
 Bifeprunox (Cat. No. B2921)  
 Sertraline (hydrochloride) (Cat. No. B2393)  
 Metergoline (Cat. No. B3088)

**DISCLAIMER:** **FOR RESEARCH USE ONLY! Not to be used on humans.**