Clebopride maleate salt

Product Number  C 8289
Storage Temperature  2-8 °C

Product Description
Molecular Formula:  C_{20}H_{24}ClN_{3}O_{2} • C_{4}H_{4}O_{4}
Molecular Weight:  490.0
CAS Number:  84370-95-6
Synonym:  4-(4-amino-5-chloro-2-methoxybenzamido)-1-benzylpiperidine;
4-amino-5-chloro-2-methoxy-N-[1-(phenylmethyl)4-piperidinyl]benzamide

Clebopride maleate is a substituted benzamide compound and dopamine receptor antagonist that is related to metoclopramide.\(^1,2\) Initial studies of the blockade of cerebral dopamine receptors indicated that clebopride showed greater activity compared to metoclopramide.\(^3\) Incubation of rabbit liver homogenates with clebopride resulted in the formation of the metabolites 4-amino-5-chloro-2-methoxybenzoic acid and N-(4'-piperidyl)-4-amino-5-chloro-2-methoxybenzamide.\(^4\)

A structural study of the D\(_2\) dopamine receptor in the ligand binding region, with a mutation of His\(^{394}\) to Leu\(^{394}\), has resulted in enhanced binding of clebopride to this D\(_2\) dopamine receptor variant.\(^5\) The effect of long-term treatment of clebopride in rats on the morphology of the mammary gland has been studied.\(^6\)

A GC-MS method for the analysis of clebopride in plasma has been published.\(^7\) The chiral resolution of the enantiomers of clebopride and other antifungal drugs on cellulose chiral columns in normal phase mode has been described.\(^8\)

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (10 mg/ml), with heat as needed, yielding a clear, colorless solution.

References
1. The Merck Index, 12th ed., Entry# 2404.