

Certificate of Analysis

Product Name: SDZ 205-557 hydrochloride

Catalog No.: 2037

Batch No.: 1

CAS Number: 1197334-02-3

IUPAC Name: 4-Amino-5-chloro-2-methoxybenzoic acid 2-(diethylamino)ethyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₁ClN₂O₃.HCl

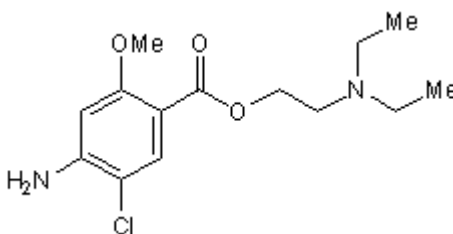
Batch Molecular Weight: 337.25

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Dichloromethane:Methanol [95:5])

HPLC: Shows >99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.86	6.57	8.31
Found	49.73	6.63	8.18

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Description:

5-HT₃/5-HT₄ receptor antagonist.

Physical and Chemical Properties:

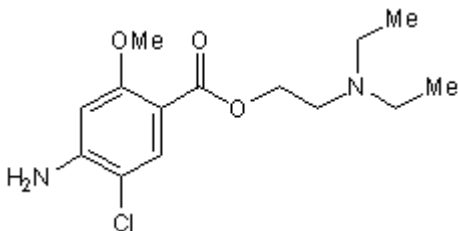
Batch Molecular Formula: C₁₄H₂₁ClN₂O₃·HCl

Batch Molecular Weight: 337.25

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 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:

Buchheit et al (1992) SDZ 205-557, a selective, surmountable antagonist for 5-HT₄ receptors in the isolated guinea pig ileum. *Naunyn-Schmied.Arch.Pharmacol.* **345** 387.

Eglen et al (1993) The action of SDZ 205,557 at 5-hydroxytryptamine (5-HT₃ and 5-HT₄) receptors. *Br.J.Pharmacol.* **108** 376. PMID: 8448587.

McMahon and Cunningham (1999) Antagonism of 5-hydroxytryptamine(4) receptors attenuates hyperactivity induced by cocaine: putative role for 5-hydroxytryptamine(4) receptors in the nucleus accumbens shell. *J.Pharmacol.Exp.Ther.* **291** 300. PMID: 10490917.

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