

Certificate of Analysis

Product Name: Sarpogrelate hydrochloride

Catalog No.: 3739

Batch No.: 1

CAS Number: 135159-51-2

IUPAC Name: Succinic acid mono-(1-dimethylaminomethyl-2-(2-[2-(3-methoxyphenyl)ethyl]phenoxy)ethyl) ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₁NO₆.HCl

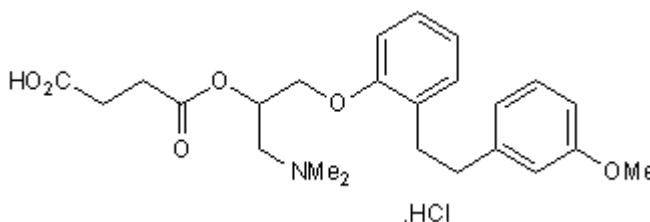
Batch Molecular Weight: 465.97

Physical Appearance: White solid

Solubility: water to 25 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.86	6.92	3.01
Found	61.94	6.96	2.96

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective 5-HT_{2A} receptor antagonist (pK_i values are 8.52, 7.43 and 6.57 for 5-HT_{2A}, 5-HT_{2C} and 5-HT_{2B} receptors respectively). Displays selectivity over 5-HT₁, 5-HT₃, 5-HT₄ H₁, H₂, M₃, α₁-adrenergic, α₂-adrenergic and β-adrenergic receptors. Displays cardioprotective activity in vivo.

Physical and Chemical Properties:

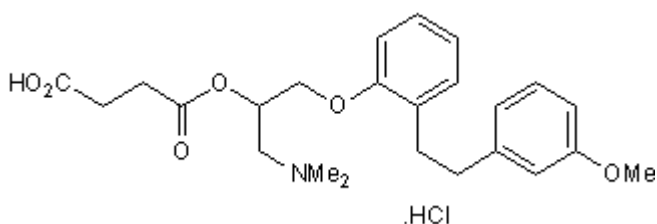
Batch Molecular Formula: C₂₄H₃₁NO₆.HCl

Batch Molecular Weight: 465.97

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 mM
DMSO 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:

Brasil et al (2002) Blockade of 5-HT(2A) receptors by sarpogrelate protects the heart against myocardial infarction in rats. *J.Cardiovasc.Pharmacol.Ther.* **7** 53. PMID: 12000979.

Rashid et al (2003) Identification of the binding sites and selectivity of sarpogrelate, a novel 5-HT₂ antagonist, to human 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} receptor subtypes by molecular modeling. *Life Sci.* **73** 193. PMID: 12738034.

Nishiyama (2009) Acute effects of sarpogrelate, a 5-HT_{2A} receptor antagonist on cytokine production in endotoxin shock model of rats. *Eur.J.Pharmacol.* **614** 122. PMID: 19318092.

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