

Certificate of Analysis

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Product Name: Synthalin sulfate

CAS Number: 182285-12-7

IUPAC Name: *N,N*-1,10-Decanediyldisguanidine sulfate

Catalog No.: 0635

Batch No.: 1

EC Number: 206-112-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_{28}N_6 \cdot H_2SO_4$

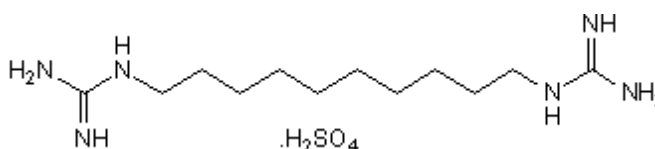
Batch Molecular Weight: 354.46

Physical Appearance: White solid

Solubility: water to 5 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

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

Product Information

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Description:

An effective non-competitive NMDA receptor antagonist *in vivo* and *in vitro*; may bind to more than one site, one of which is the polyamine site.

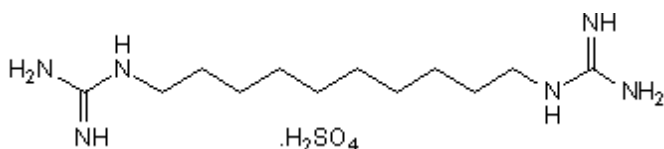
Physical and Chemical Properties:

Batch Molecular Formula: C₁₂H₂₈N₆·H₂SO₄

Batch Molecular Weight: 354.46

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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.

References:

Reynolds *et al* (1991) 1,10-Bis(guanidino)decane inhibits N-methyl-D-aspartate responses *in vitro* and *in vivo*. J.Pharmacol.Exp.Ther. **259** 626. PMID: 1658306.

Reynolds (1992) Interactions between zinc and spermidine on the N-methyl-D-aspartate receptor complex: clues to the mechanism of action of 1,10-bis(guanidino)decane and pentamidine. J.Pharmacol.Exp.Ther. **263** 632. PMID: 1432693.

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