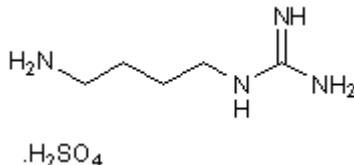


Certificate of Analysiswww.tocris.com**Product Name:** Agmatine sulfate**Catalog No.:** 0842**Batch No.:** 5

CAS Number: 2482-00-0

IUPAC Name: (4-Aminobutyl)guanidine sulfate

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₅H₁₄N₄·H₂SO₄**Batch Molecular Weight:** 228.27**Physical Appearance:** White solid**Solubility:** water to 100 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****¹H NMR:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 26.31 7.06 24.54

Found 26.47 6.87 24.38

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

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Product Name: Agmatine sulfate**Catalog No.:** 0842**Batch No.:** 5

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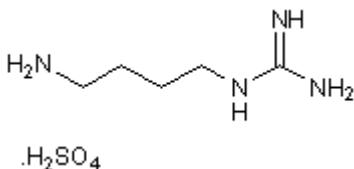
Description:

Arginine metabolite that is synthesized within bovine brain and exhibits clonidine-displacing substance (CDS) activity. Putative endogenous ligand for the imidazoline binding site.

Physical and Chemical Properties:Batch Molecular Formula: C₅H₁₄N₄H₂SO₄

Batch Molecular Weight: 228.27

Physical Appearance: White solid

Batch Molecular Structure:**Storage:** Store 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:Merck Index **12** 186.Li *et al* (1994) Agmatine: an endogenous clonidine-displacing substance in the brain. **263** 966. PMID: 7906055.Piletz *et al* (1995) Comparison of the properties of agmatine and endogenous clonidine-displacing substance at imidazoline and *alpha*-2-adrenergic receptors. *J.Pharmacol.Exp.Ther.* **272** 581. PMID: 7853171.Reis and Regunathan (2000) Is agmatine a novel neurotransmitter in brain? *TiPs* **21** 187. PMID: 10785653.

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