

Certificate of Analysis

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Product Name: D-Amphetamine sulfate

Catalog No.: 2813

Batch No.: 9

CAS Number: 51-63-8

EC Number: 200-111-6

IUPAC Name: (+)- α -Methylphenethylamine hemisulfate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₃N.1/2H₂SO₄

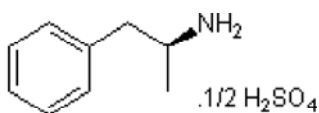
Batch Molecular Weight: 184.25

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

Chiral HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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IUPAC Name: (+)- α -Methylphenethylamine hemisulfate salt

Description:

CNS stimulant. Targets monoamine transporters to elevate synaptic levels of noradrenalin, dopamine and serotonin. Also α 7 nAChR antagonist.

Physical and Chemical Properties:

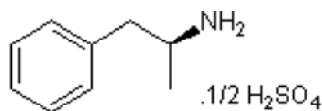
Batch Molecular Formula: C₉H₁₃N.1/2H₂SO₄

Batch Molecular Weight: 184.25

Physical Appearance: White solid

Minimum Purity: \geq 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 2 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Garton *et al* (2018) Amphetamine enantiomers inhibit homomeric α 7 nicotinic receptor through a competitive mechanism and within the intoxication levels in humans. *Neuropharmacology*. PMID: 30359640.

Rothman and Baumann (2006) Balance between DA and serotonin release modulates behavioral effects of Amphetamine-type drugs. *Ann.N.Y.Acad.Sci.* **1074** 245. PMID: 17105921.

Barr *et al* (1999) Effects of withdrawal from an escalating dose schedule of *d*-Amphetamine on sexual behavior in the male rat. *Pharmacol.Biochem.Behav.* **64** 597. PMID: 10548277.

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