

Certificate of Analysis

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Product Name: Physostigmine hemisulfate

Catalog No.: 0622

Batch No.: 14

CAS Number: 64-47-1

EC Number: 200-585-4

IUPAC Name: (3aS)-cis-1,2,3,3a,8,8a-Hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-ol methylcarbamate hemisulfate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₁N₃O₂·½H₂SO₄·¼H₂O

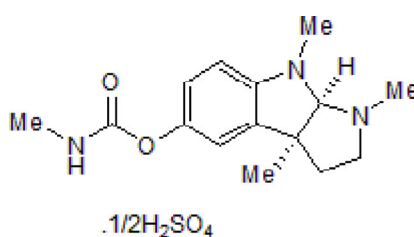
Batch Molecular Weight: 328.89

Physical Appearance: Pale pink solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 54.78 6.9 12.78

Found 54.39 7.05 12.8

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

Physostigmine hemisulfate is a cholinesterase inhibitor.

Physical and Chemical Properties:

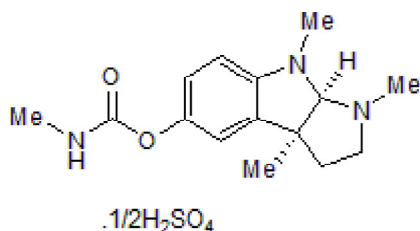
Batch Molecular Formula: C₁₅H₂₁N₃O₂·½H₂SO₄·½H₂O

Batch Molecular Weight: 328.89

Physical Appearance: Pale pink solid

Minimum Purity: ≥98%

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Millard and Broomfield (1995) Anticholinesterases: medical applications of neurochemical principles. J.Neurochem **64** 1909. PMID: 7722478.

Merck Index **12** 7540.

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info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

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Europe Middle East Africa

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Tel: +1 612 379 2956