

Certificate of Analysis

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Print Date: Jan 15th 2016

Product Name: Piracetam Catalog No.: 2973 Batch No.: 1

CAS Number: 7491-74-9

a biotechne brand

IUPAC Name: 2-Oxo-1-pyrrolidineacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Solubility: water to 100 mM Storage: Store at RT

Batch Molecular Structure:

$$H_2N$$

2. ANALYTICAL DATA

Microanalysis:

1H NMR:Consistent with structureMass Spectrum:Consistent with structure

Carbon Hydrogen Nitrogen

Theoretical 50.69 19.71 Found 50.39 19.7



Product Information

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CAS Number: 7491-74-9

IUPAC Name: 2-Oxo-1-pyrrolidineacetamide

Description:

Nootropic that displays cognitive enhancing properties. Proposed to enhance neurotransmission via modulation of ion flux; potentiates Na+ influx through AMPA receptors. Facilitates efficiency of cholinergic neurotransmission at muscarinic receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₆H₁₀N₂O₂ Batch Molecular Weight: 142.16 Physical Appearance: White solid

Batch Molecular Structure:

$$H_2N$$
 O

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:

Vernon and Sorkin (1991) Piracetam. An overview of its pharmacological properties and a review of its therapeutic use in senile cognitive disorders. Drugs Aging. *1* 17. PMID: 1794001.

Gouliaev and Senning (1994) Piracetam and other structurally related nootropics. Brain Res.Brain Res.Rev. *19* 180. PMID: 8061686. **Winbald** (2005) Piracetam: a review of pharmacological properties and clinical uses. CNS Drug Rev. *11* 169. PMID: 16007238.

Tel: +44 (0)1235 529449 www.tocris.com/distri Tel:+1 612 379 2956