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## DATASHEET

Piracetam

### Product overview

|                          |  |
|--------------------------|--|
| <b>Name</b>              | Piracetam  |
| <b>Cat No</b>            | HB0507   |
| <b>Biological action</b> | PAM  |
| <b>Description</b>       | GABA derivative AMPA positive allosteric modulator |

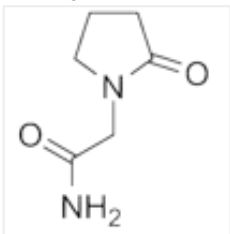
### Biological Data

|                               |  |
|-------------------------------|--|
| <b>Biological description</b> | Nootropic GABA derivative AMPA positive allosteric modulator. Shows cognitive enhancing effects. Displays anti-inflammatory, anticonvulsant, neuroprotective and analgesic properties. |
|-------------------------------|--|

### Solubility & Handling

|                             |   |
|-----------------------------|---|
| <b>Storage instructions</b> | Room temperature  |
| <b>Solubility overview</b>  | Soluble in water (100mM)  |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

### Chemical Data

|                           |   |
|---------------------------|---|
| <b>Chemical name</b>      | 2-Oxo-1-pyrrolidineacetamide  |
| <b>Molecular Weight</b>   | 142.16  |
| <b>Chemical structure</b> |  |
| <b>Molecular Formula</b>  | C <sub>6</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>                        |
| <b>CAS Number</b>         | 7491-74-9   |
| <b>PubChem identifier</b> | 4843  |
| <b>SMILES</b>             | O=C1CCCN1CC(N)=O  |
| <b>InChiKey</b>           | GMZVRMREEHBGGF-UHFFFAOYSA-N   |

### References

#### **Piracetam: a review of pharmacological properties and clinical uses.**

Winblad B (2005) CNS Drug Rev 11(2)

**PubMedID** [16007238](#)

#### **Analgesic activity of piracetam: effect on cytokine production and oxidative stress.**

Navarro SA *et al* (2013) Pharmacol Biochem Behav 105

PubMedID

23474372

**Piracetam defines a new binding site for allosteric modulators of alpha-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA) receptors.**

Ahmed AH *et al* (2010) J Med Chem 53(5)

PubMedID

20163115

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