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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

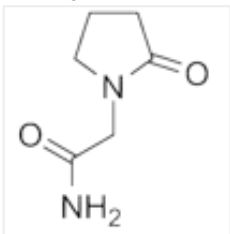
### Biological Data

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