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DATASHEET

Piracetam

Product overview

Name	Piracetam
Cat No	HB0507
Biological action	PAM
Description	GABA derivative AMPA positive allosteric modulator

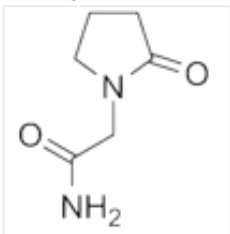
Biological Data

Biological description	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

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

Chemical Data

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