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DATASHEET

Aniracetam

Product overview

Name	Aniracetam
Cat No	HB0116
Biological action	PAM
Purity	>98%
Description	Nootropic AMPA receptor positive allosteric modulator

Images



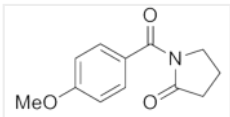
Biological Data

Biological description	Nootropic AMPA receptor positive allosteric modulator, reduces glutamate receptor desensitisation and AMPA receptor deactivation. Shows anxiolytic properties.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in ethanol (25mM) or DMSO (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	1-(4-Methoxybenzoyl)-2-pyrrolidinone
Molecular Weight	219.24
Chemical structure	
Molecular Formula	C ₁₂ H ₁₃ NO ₃
CAS Number	72432-10-1
PubChem identifier	2196
SMILES	O=C2CCCN2C(=O)c1ccc(OC)cc1
InChi	InChI=1S/C12H13NO3/c1-16-10-6-4-9(5-7-10)12(15)13-8-2-3-11(13)14/h4-7H,2-3,8H2,1H3

InChiKey
MDL number
Appearance

ZXNRTKGTQJPIJK-UHFFFAOYSA-N
MFCD00153767
White solid

References

Anxiolytic effects of aniracetam in three different mouse models of anxiety and the underlying mechanism.

Nakamura K *et al* (2001) *Eur J Pharmacol* 420(1)

PubMedID [11412837](#)

Aniracetam reduces glutamate receptor desensitization and slows the decay of fast excitatory synaptic currents in the hippocampus.

Isaacson JS *et al* (1991) *Proc Natl Acad Sci U S A* 88(23)

PubMedID [1660156](#)
