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DATASHEET

GABA

Product overview

Name	GABA
Cat No	HB0882
Biological action	Inhibitor
Description	Endogenous inhibitory neurotransmitter


Biological Data

Biological description	Main endogenous inhibitory neurotransmitter. Activates ionotropic GABA _A and GABA _A - ρ receptors and metabotropic GABA _B receptors. Also induces α -cell-mediated β -like endocrine cell neogenesis in vivo.
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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	4-Aminobutyric acid
Molecular Weight	103.12
Chemical structure	
Molecular Formula	C ₄ H ₉ NO ₂
CAS Number	56-12-2
PubChem identifier	119
SMILES	C(CC(=O)O)CN
InChi	InChI=1S/C4H9NO2/c5-3-1-2-4(6)7/h1-3,5H2,(H,6,7)
InChiKey	BTCSSZJGUNDROE-UHFFFAOYSA-N
MDL number	MFCD00008226

References

GABA_A receptors: relatively simple transmitter-gated ion channels?

Johnston GA (1996) Trends Pharmacol Sci 17(9)

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GABA and GABA receptors in the central nervous system and other organs.

Watanabe M *et al* (2002) Int Rev Cytol 213

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GABA: a dominant neurotransmitter in the hypothalamus.

Decavel C *et al* (1990) J Comp Neurol 302(4)

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Synthesis of neurotransmitter GABA via the neuronal tricarboxylic acid cycle is elevated in rats with liver cirrhosis consistent with a high GABAergic tone in chronic hepatic encephalopathy.

Leke R *et al* (2011) J Neurochem 117(5)

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Long-Term GABA Administration Induces Alpha Cell-Mediated Beta-like Cell Neogenesis.

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