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## Product Information

### N-Acetyl-Asp-Glu

Product Number **A 5930**

Storage Temperature -0 °C

#### Product Description

Molecular Formula:  $C_{11}H_{16}N_2O_8$

Molecular Weight: 304.3

CAS Number: 3106-85-2

Specific rotation:  $-34.5^\circ$  ( $H_2O$ , 1.1 mg/ml)

Synonym: NAAG

This product is an endogenous dipeptide found in the central nervous system.<sup>1</sup> It has been localized to brain neurons in culture. NAAG may act as a neurotransmitter in the retinohypothalamic tract.<sup>2,3</sup> NAAG is hydrolyzed by N-Acetylated- $\alpha$ -linked acidic dipeptidase (NAALADase) to form N-acetylaspartate and glutamate.<sup>4</sup>

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Preparation Instructions

This product is soluble in water (50 mg/ml).

#### References

1. Cassidy, M. and Neal, J.H. Localization and transport of N-acetylaspartylglutamate in cells of whole murine brain in primary culture. *J. Neurochem.*, **60(5)**, 1631-1638 (1993).
2. Moffett, J.R., et al., N-acetylaspartylglutamate: a transmitter candidate for the retinohypothalamic tract. *Proc. Natl. Acad. Sci. USA*, **87(20)**, 8065-8069 (1990).
3. Tsai, G., et al., Selective release of N-acetylaspartyl-glutamate from rat optic nerve terminals in vivo. *Brain Res.*, **518(1-2)**, 313-316 (1990).
4. Meyerhoff, J.L., et al., Genetically epilepsy-prone rats have increased brain regional activity of an enzyme which liberates glutamate from N-acetylaspartyl-glutamate. *Brain Res.*, **593(1)**, 140-143 (1992).

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