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**Product Data Sheet**

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Product Name: N-Acetylornithine

Cat. No.: GC33455

**Chemical Properties**

Cas. No. 6205-08-9

SMILES NCCCC[C@@H](C(O)=O)NC(C)=OFormula C7H14N2O3 M.Wt 174.2

Solubility  $H_2O$  : 100 mg/mL (574.05 mM; Need ultrasonic); DMSO : 1.96 mg/mL (11.25 mM; ultrasonic and warming and adjust pH to 5 with HCl and heat to 80°C) Store Storage at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

N-acetyl-L-ornithine is an intermediate in arginine and proline metabolism and a precursor in the synthesis of the protein oxidation product  $\gamma$ -glutamic semialdehyde.<sup>1,2</sup>

1. Akagawa, M., Sasaki, D., Kurota, Y., et al. Formation of  $\alpha$ -amino adipic and  $\gamma$ -glutamic semialdehydes in proteins by the Maillard reaction. *Ann. N. Y. Acad. Sci.* 1043(1)129-134(2005)  
2. Soladoye, O.P., Shand, P., Dugan, M.E.R., et al. Influence of cooking methods and storage time on lipid and protein oxidation and heterocyclic aromatic amines production in bacon. *Food Res. Int.* 99(1)660-669(2017)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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