
Product Data Sheet

Product Name: L-Alanine-13C2

Cat. No.: GC67973

Chemical Properties

Cas. No. 65163-26-0

Formula $C^{13}C_2H_7NO_2$ M.Wt 91.08Solubility H_2O : 100 mg/mL (1097.94 mM; Need ultrasonic); DMSO : 1 mg/mL (10.98 mM; ultrasonic and warming 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**

L-Alanine-13C2 (L-2-Aminopropionic acid-13C2) is the 13C-labeled L-Alanine. L-Alanine is a non-essential amino acid, involved in sugar and acid metabolism, increases immunity, and provides energy for muscle tissue, brain, and central nervous system.

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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