

---

**Product Data Sheet**

---

Product Name: Glycine-1-13C

Cat. No.: GC68215

**Chemical Properties**

Cas. No. 20110-59-2

Formula  $C^{13}CH_5NO_2$ 

M.Wt 76.06

Solubility  $H_2O$  : 25 mg/mL (328.69 mM; Need ultrasonic and warming);  
 $H_2O$  : 25 mg/mL (328.69 mM; Need ultrasonic)

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**

Glycine-1-13C is the 13C-labeled Glycine. Glycine is an inhibitory neurotransmitter in the CNS and also acts as a co-agonist along with glutamate, facilitating an excitatory potential at the glutaminergic **N-methyl-D-aspartic acid (NMDA)** receptors.

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<sup>[1]</sup>.

[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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA