
Product Data Sheet

Product Name: L-Aspartic acid-1,4-13C2

Cat. No.: GC68049

Chemical Properties

Cas. No. 101247-29-4

Formula $C_2^{13}C_2H_7NO_4$

M.Wt 135.09

Solubility 1M NaOH : 100 mg/mL (740.25 mM; ultrasonic and adjust pH to 12 with NaOH); H₂O : 2 mg/mL (14.80 mM; ultrasonic and warming and heat to 60°C); DMSO : 1 mg/mL (7.40 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-Aspartic acid-1,4-13C2 is the 13C-labeled L-Aspartic acid. L-Aspartic acid is an amino acid, shown to be a suitable prodrug for colon-specific drug delivery.

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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