
Product Data Sheet

Product Name: L-Asparagine-amide-15N monohydrate

Cat. No.: GC65132

Chemical Properties

Cas. No. 204451-47-8

Formula C₄H₁₀N₁₅NO₄

M.Wt 151.13

Solubility H₂O : 50 mg/mL (330.84 mM; Need ultrasonic); H₂O : 20 mg/mL (132.34 mM; Need ultrasonic); DMSO : 1 mg/mL (6.62 mM; ultrasonic and warming and heat to 60°C) Store 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-Asparagine-amide-15N (monohydrate) is the 15N-labeled L-Asparagine (monohydrate). L-Asparagine monohydrate ((-)-Asparagine monohydrate) is a non-essential amino acid that is involved in the metabolic control of cell functions in nerve and brain tissue.

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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