

Product Data Sheet

Product Name: D-Glucose-1-13C

Cat. No.: GF14663

Chemical Properties

Cas. No. 40762-22-9

Formula C₆H₁₂O₆

M.Wt 181.15

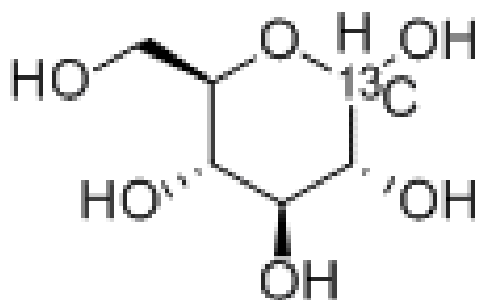
Solubility H₂O : 250 mg/mL (1380.07 mM;
Need ultrasonic)

Storage Store at RT

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

D-Glucose-13C-4 is the 13C labeled D-Glucose. D-Glucose (Glucose), a monosaccharide, is an important carbohydrate in biology. D-Glucose is a carbohydrate sweetener and critical components of the general metabolism, and serve as critical signaling molecules in relation to both cellular metabolic status and biotic and abiotic stress response[1].

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.

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

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