
Product Data Sheet

Product Name: Alpha-D-glucose-13C

Cat. No.: GC27086

Chemical Properties

Cas. No. 287100-64-5

SMILES OC[C@@H]1[C@H]([13C@@H]([C@H]([C@H](O1)O)O)O)OFormula $C_5^{13}CH_{12}O_6$ M.Wt 181.15Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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**

Alpha-D-glucose- ^{13}C is the ^{13}C labeled alpha-D-glucose. alpha-D-glucose is an endogenous metabolite^[1].

In Vitro, 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].

References:

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;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