

Product Data Sheet

Product Name: D-Fructose-13C6

Cat. No.: GC47204

Chemical Properties

Cas. No. 201595-65-5

SMILES O[13CH2][13C@@H](O)[13C@@H](O)[13C@H](O)[13C]([13CH2]O)=O

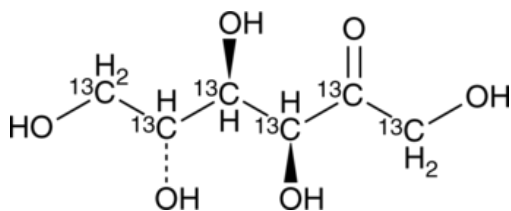
Formula [13C]6H12O6 M.Wt 186.1

Solubility DMSO: 1 mg/ml, PBS (pH 7.2): 10 mg/ml Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

D-Fructose-13C6, a ¹³C-labeled D-Fructose, acts as an internal reference for fructose and xylitol quantitation [1]. D-Fructose-13C6 is widely used in plasma metabolomics analysis and dynamic multi-omics profiling to ensure chromatographic performance, quality calibration and extraction efficiency [2-3].

References:

[1] Wang L, Stanfill S, Valentin-Blasini L, et al. LC-MS/MS analysis of sugars, alditols, and humectants in smokeless tobacco products[J]. Contributions to Tobacco & Nicotine Research, 2019, 28(5): 203-213.

[2] Wang J, Liu L, Liu H, et al. Dynamic multi-omics profiling of islet and gut hormonal secretion and peripheral crosstalk in response to various nutrient loads[J]. Cell Reports Medicine, 2025, 6(9).

[3] Fu Q, Dai H, Wang J, et al. Multi-omics analysis of dynamic profiles in response to various

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

Product Data Sheet

nutrient loads provides novel insights into obesity[J]. Clinical Nutrition, 2026: 106607.

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