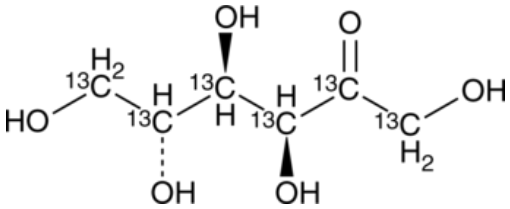
Product Data Sheet

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 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-Fructose-13C6, a ^{13}C-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

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