

Glycine-d2

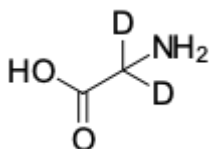
<http://www.lumiprobe.com/p/glycine-d2-4896-75-7>

Glycine-d2 is the deuterium-labeled glycine and is intended for use as an internal standard for LC-MS.

Glycine concentration is a good marker of nonketotic hyperglycinemia (genetic, inborn error of glycine metabolism). Nonketotic hyperglycinemia leads to glycine accumulation throughout the body due to a mutation in its cleavage enzyme system. A high level of glycine in the blood may also indicate propionic acidemia or methylmalonic acidemia.

Lower circulating glycine levels could be a marker of metabolic disorders associated with obesity, type 2 diabetes (T2DM), and non-alcoholic fatty liver disease (NAFLDs).

Glycine quantification by LC-MS could be performed most efficiently using glycine-d2 standard.



Structure of Glycine-d2

General properties

Appearance: white solid

Molecular weight: 77.08

CAS number: 4896-75-7

Molecular formula: C₂H₃D₂NO₂

Solubility: in water

Quality control: NMR ¹H and HPLC-MS (95+ %, D: 98+ %)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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