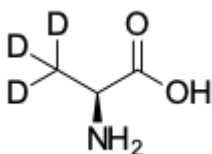


L-Alanine-d3

<http://www.lumiprobe.com/p/l-alanine-d3>

L-Alanine-d3 is the deuterium-labeled L-alanine and is intended for use as an analytical reference standard in GC- or LC-MS.

L-Alanine (α -alanine) is a nonessential amino acid with a key role in human protein synthesis. L-alanine is an amino acid that serves as a pre-modulator for ligands, particularly pyridine derivatives, facilitating their binding to metal ion centers in the formation of metal-organic frameworks (MOFs). Accumulation of α -alanine reduces the production of pyruvate in glycolysis by inhibiting pyruvate kinase and thus prevents consuming glucose in the liver. Alanine also serves a major role in transporting amino acid nitrogen from tissues to the liver for disposal in the urea cycle.



Structure of L-Alanine-d3

General properties

Appearance: white solid

Molecular weight: 92.11

Molecular formula: C₃H₄D₃NO₂

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.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.