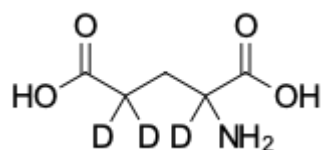


D,L-Glutamic acid-d3

<http://www.lumiprobe.com/p/dl-glutamic-acid-d3>

Glutamic acid together with its γ -monoamide - glutamine - makes up about a third of all free amino acids in blood plasma, its content in body proteins is 20-25 %. In the blood, glutamic acid maintains pH balance, binds excess ammonia, turning into glutamine, transports it to the site of detoxification, and serves as a reserve of amino groups. Glutamic acid acts as an excitatory neurotransmitter and agonist of all subtypes of glutamate receptors (metabotropic, kainate, NMDA and AMPA), and is also a precursor of gamma-aminobutyric acid (GABA). Glutamic acid has an immunomodulatory effect and affects many metabolic processes.



Structure of D,L-Glutamic acid-d3

General properties

Appearance: white solid

Molecular weight: 150.15

CAS number: 96927-56-9

Molecular formula: C₅H₆D₃NO₄

Solubility: DMSO, 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.