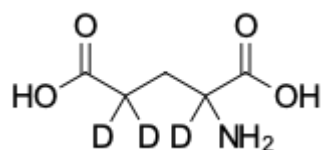


## D,L-Glutamic acid-d3

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

Glutamic acid together with its  $\gamma$ -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**

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### General properties

Appearance: white solid

Molecular weight: 150.15

CAS number: 96927-56-9

Molecular formula: C<sub>5</sub>H<sub>6</sub>D<sub>3</sub>NO<sub>4</sub>

Solubility: DMSO, water

Quality control: NMR <sup>1</sup>H 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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