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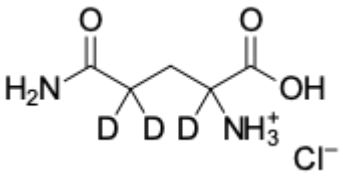
D,L-Glutamine-d3

http://www.lumiprobe.com/p/d-l-glutamine-d3-hydrochloride

As a key amino acid, glutamine is involved in fundamental processes of cellular metabolism and biosynthesis, serving as a precursor for neurotransmitters, including excitatory glutamate and inhibitory GABA. Monitoring its concentration in blood plasma holds significant clinical and research value. In oncology, glutamine levels serve as an important prognostic indicator of tumor metabolic activity. In critical conditions such as sepsis or major trauma, it reflects the degree of metabolic stress and catabolism, while in sickle cell disease, it is used to assess the efficacy of specific therapy.

The use of our highly purified standard, chemically identical to glutamine but with a distinct mass, enables the complete elimination of matrix effects and analytical errors at all stages, ensuring maximum accuracy and reproducibility of measurement results in clinical diagnostics and biomedical research.

Product is intended for the precise quantitative determination of glutamine in biological matrices using tandem mass spectrometry (MS/MS).



Structure of D,L-Glutamine-d3

General properties

Appearance:	white powder
Molecular weight:	185.63
CAS number:	203805-84-9 (free acid)
Molecular formula:	$C_5H_8D_3ClN_2O_3$
Solubility:	in water
Quality control:	NMR ^1H and HPLC-MS (95+ %, D: 98+ %)
Storage conditions:	24 months after receival 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.