

GLUD1 Protein, Human (His)

Cat. No.:	HY-P701915
Synonyms:	GLUD1; Glutamate dehydrogenase 1; mitochondrial; GDH 1
Species:	Human
Source:	E. coli
Accession:	P00367 (S54-T558)
Gene ID:	2746
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	GLUD1 protein, a mitochondrial glutamate dehydrogenase, stands as a critical catalyst in the conversion of L-glutamate to alpha-ketoglutarate, thereby playing a pivotal role in glutamine anaplerosis and supplying the tricarboxylic acid cycle with a crucial intermediate. Beyond its metabolic functions, GLUD1 emerges as a key player in insulin homeostasis, contributing to the intricate regulation of glucose metabolism. Additionally, there is suggestive evidence implicating GLUD1 in cognitive processes, hinting at its potential involvement in learning and memory reactions through modulation of the excitatory neurotransmitter glutamate turnover.
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Caution: Product has not been fully validated for medical applications. For research use only.

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