

Recombinant Human GLUD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GLUD1-3410H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GLUD1 MS Standard C13 and N15-labeled recombinant protein (NP_005262) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes glutamate dehydrogenase, which is a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid-induced insulin secretion. It is allosterically activated by ADP and inhibited by GTP and ATP. Activating mutations in this gene are a common cause of congenital hyperinsulinism. Alternative splicing of this gene results in multiple transcript variants. The related glutamate dehydrogenase 2 gene on the human X-chromosome originated from this gene via retrotransposition and encodes a soluble form of glutamate dehydrogenase. Related pseudogenes have been identified on chromosomes 10, 18 and X.
Molecular Mass	61.4 kDa
AA Sequence	MYRYLGEALLSRAGPAALGSASADSAALLGWARGQPAAAPQPGLALAARRHYSE AVADREDDPNFFKMVEGFFDRGASIVEDKLVEDLRTRESEEQKRNRVRGILRIIKPC NHVLSLSFPIRRDDGSWEVIEGYRAQHSQHRTPCGGIRYSTDVSDEVKALASLM TYKCAVVDVPFGGAKAGVKINPKNYTDNELEKITRRFTMELAKKGFIGPGIDVPAPD

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MSTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHGRISATGRGVFHGIENF
INEASYMSILGMPGFGDKTFVVQGFGNVGLHSMRYLHRFGAKCIAVGESDGSINW
PDGIDPKELEDFKLQHGSILGFPKAKPYEGSILEADCILIPAASEKQLTKSNAPRVKA
KIIAEGANGPTTPEADKIFLERNIMVIPDLYLNAGGVTVSYFEWLKLNHNHVSYGRLTFK
YERDSNYHLLMSVQESLERKFGKHGGTIPVPTAEFQDRISGASEKDIVHSGLAYTM
ERSARQIMRTAMKYNLGLDLRTAAYVNAIEKVFKVYNEAGVTFTTRTRPLEQKLISEE
DLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GLUD1 glutamate dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	GLUD1
Synonyms	GLUD1; glutamate dehydrogenase 1; GLUD; glutamate dehydrogenase 1, mitochondrial; GDH; GDH 1; glutamate dehydrogenase (NAD(P)+); GDH1; MGC132003;
Gene ID	2746

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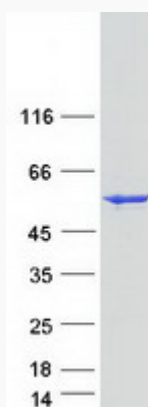
mRNA Refseq [NM_005271](#)

Protein Refseq [NP_005262](#)

MIM [138130](#)

UniProt ID [P00367](#)

SDS-PAGE



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