

Recombinant Full Length Human GLUD1 Protein, C-Flag-tagged

Cat. No. GLUD1-1278HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GLUD1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	56 kDa
AA Sequence	MYRYLG EALLSRAGPAALGSASADSAALLGWARGQPAAAPQPGLALAARRHYSE AVADREDDPNFFKMV EGFFDRGASIVEDKLVEDLRTRESEEQKRNRVRGILRIIKPC NHVLSLSFPIRRDDGSWEVIEGYRAQHS QHRTPCGGIRYSTDVSVDEVKALASLM

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TYKCAVVDVPFGGAKAGVKINPKNYTDNELEKITRRFTMELA KKGFIGPGIDVPAPD
MSTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHGRISATGRGVFHGI EN
FINEASYMSILGMTPGFGDKTFVVQGFNGVGLHSMRYLHRFGAKCIAVGESDGSIW
NPDGIDPKELED FKLQHGHSILGFPKAKPYEGSILEADCILIPAASEKQLTKSNAPRV
KAKIIAEGANGPTTPEADKIFLER NIMVIPDLYLNAGGVTVSYFEWLKNLNHVSYGRL
TFKYERDSNYHLLMSVQESLERKFGKHGGTIPIVPT AEFQDRISGASEKDIVHSGLA
YTMERSARQIMRTAMKYNLGLDLRTAAYVNAIEKVFKVYNEAGVTFTTRTRPLEQKLI
SEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
Full Length	Full L.

GENE INFORMATION

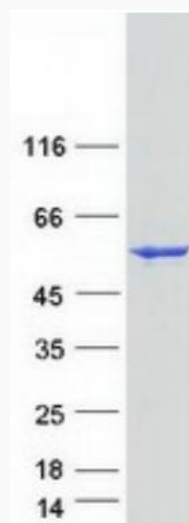
Gene Name [GLUD1 glutamate dehydrogenase 1 \[Homo sapiens \(human\) \]](#)

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Official Symbol	GLUD1
Synonyms	GDH; GDH1; GLUD; hGDH1
Gene ID	2746
mRNA Refseq	NM_005271.5
Protein Refseq	NP_005262.1
MIM	138130
UniProt ID	P00367



Coomassie blue staining of purified GLUD1 protein.