

Recombinant Human GLUD1 Protein, GST-tagged

Cat. No. GLUD1-4991H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GLUD1 full-length ORF (BAG52930.1, 1 a.a. - 515 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes glutamate dehydrogenase protein; 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 and activating mutations in this gene are a common cause of congenital hyperinsulinism. This enzyme is allosterically activated by ADP and inhibited by GTP and ATP. 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. Multiple pseudogenes of this gene are present in humans
Molecular Mass	82.4 kDa
AA Sequence	MYRYLPGGTARRRPAAGAGIGRPAPLQRGGGRPRGRPQLLQDGGGLLSRRQHR GGQAGGGPEDPGERGAEAEPGARHPADHQALQPCAESLLPQHSQHRTPCKGGIR YSTDVSVDEVKALASLMTYKCAVVDVPFGGAKAGVKINPKNYTDNELEKITRRFTME LAKKGFIPGIDVPAPDMSTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIH GRISATGRGVFHHGIENFINEASYMSILGMTPGFGDKTFVVGFGNVGLHSMRYLHRF

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GAKCIAVGESDGSIWNPDGIDPKELEDFKLQHGSILGFPAKPYEGSILEADCDILIPA
 ASEKQLTKSNAPRVKAKIIAEGANGPTTPEADKIFLERNIMVIPDLYLNAGGVTVSYPE
 WLKNLNHVSYGRLTFKYERDSNYHLLMSVQESLERKFGKHGGTIPIVPTAEFQDRIS
 GASEKDIVHSGLAYTVERSARQIMRTAMKYNLGLDLRTAAYVNAIEKVFKVYNEAGV
 TFT

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

GLUD1 glutamate dehydrogenase 1 [Homo sapiens]

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

mRNA Refseq

NM_005271

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Protein Refseq	NP_005262
MIM	138130
UniProt ID	P00367

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