

GLuD1 recombinant protein

GLuD1, 54-558aa, Human, His tag, E Coli (Denatured)

CATALOG # AAA48857	HOST E Coli	APPLICATIONS SDS-Page
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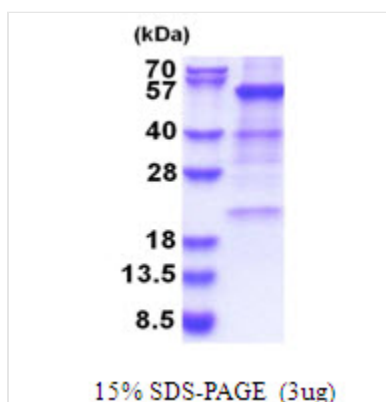
PRODUCT SYNONYMS

GLuD1; 54-558aa; Human; His tag; E Coli (Denatured); Glutamate dehydrogenase 1 mitochondrial; Glutamate dehydrogenase 1; mitochondrial; GDH; GDH1; GLuD; GLuD1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 80% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	54-558
Sequence	MGSSHHHHH SSSLVPRGSH MGSSEAVADR EDDPNFFKMV EGFFDRGASI VEDKLVEDLR TRESEEQKRN RVRGILRIK PCNHVLSLSF PIRDDGSWE VIEGYRAQHS QHRTPCGGI RYSTDVSVDE VKALASLMTY KCAVVDVPFG GAKAGVKINP KNYTDNELEK ITRRFTMELA KKGFIGPGID VPAPDMSTGE REMSWIADTY ASTIGHYDIN AHACVTGKPI SQGGIHGRIS ATGRGVFHGI ENFINEASYM SILGMTPGFG DKTFVVQGFG NVGLHSMRYL HRFGAKCIAV GESDGSINWP DGIDPKELED FKLQHGSILG FPKAKPYEGS ILEADCIL PAASEKQLTK SNAPRVKAKI IAEGANGPTT PEADKIFLER NIMVIPDLYL NAGGVTVSYF EWLKLNHVS YGRITFKYER DSNYHLLMSV QESLERKFGK HGGTIPVPT AEFQDRISGA SEKDIVHSL AYTMEARSARQ IMRTAMKYNL GLDLRTAAYV NAIEKVFKVY NEAGVTFT
Applicable Applications for GLuD1 recombinant protein	SDS-PAGE
Tag Information	His-tag
Preparation and Storage	Can be stored at 2-8 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for GLuD1 recombinant protein	Glutamate dehydrogenase 1, mitochondrial precursor, also known as GLuD1, belongs to the Glu/Leu/Phe/Val dehydrogenases family. GLuD1 has a central role in nitrogen metabolism in plants and animals. GLuD1 is found in all organisms and catalyzes the oxidative deamination of 1-glutamate to 2-oxoglutarate. Mutations in the gene encoding GLuD1 causes hyperinsulinism-hyperammonemia syndrome (HHS), which is an inherited condition characterized by high insulin and ammonia levels in the blood. GLuD1 may also be involved in learning and memory reactions by increasing the turnover of the excitatory neurotransmitter glutamate. Recombinant human GLuD1 protein, fused to His-tag at N-terminus, was expressed in E Coli.
Product Categories/Family for GLuD1 recombinant protein	Metabolism
References	Mastorodemos V., et al. (2009) Biochem Cell Biol. 87:505-516.; Tanizawa Y., et al. (2002) Diabetes. 51:712-717.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885281
NCBI GeneID	2746
NCBI Accession #	NP_005262
NCBI GenBank Nucleotide #	NM_005271.4
UniProt Accession #	P00367; Q5TBU3; B3KV55; B4DGN5
Molecular Weight	58.4 kDa (528aa)
NCBI Official Full Name	glutamate dehydrogenase 1, mitochondrial isoform a
NCBI Official Synonym Full Names	glutamate dehydrogenase 1
NCBI Official Symbol	GLUD1
NCBI Official Synonym Symbols	GDH; GDH1; GLUD
NCBI Protein Information	glutamate dehydrogenase 1, mitochondrial
UniProt Protein Name	Glutamate dehydrogenase 1, mitochondrial
UniProt Gene Name	GLUD1
UniProt Synonym Gene Names	GLUD; GDH 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/glud1-recombinant-protein-e-coli-sds-page/48857>