

Glutamate dehydrogenase 1 (GDH1), Recombinant Protein

Cat RP02563

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Glutamate dehydrogenase 1 (GDH1)

Product Gene Name

GDH1 recombinant protein

Product Synonym Gene Name

GDH1

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MNALAATNRN FKLAARLLGL DSKLEKSLLI PFREIKVECT IPKDDGTLAS FVGFRVQHDN ARGPMKGGIR
YHPEVDPDEV NALAQLMTWK TAVAKIPYGG AKGGIGCDPS KLSISELERL TRVFTQKIHD LIGIHTDVPA
PDMGTGPQTM AWILDEYSKF HGYS PAVVTG KPIDLGGSLG RDAATGRGVM FGTEALLNEH GKTISGQRFV
IQGFGNVGSW AAKLISEKGG KIVAVSDITG AIKNKDGIDI PALLKHTKEH RGVKGFDGAD PIDPNSILVE
DCDILVPAAL GGVINRENAN EIKAKFIEA ANHPTDPDAD EILSKKGVVI LPDIYANSGG VTVSYFEWWQ
NIQGFMWEEE KVNDELKTYM TRSFKDLKEM CKTHSCDLRM GAFTLGVN RV AQATILRGWG A

Sequence Positions

1-411, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

44,524 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Glucose 1-dehydrogenase

NCBI Accession

NP_197318.1

NCBI GI

15238762

NCBI GenBank Nucleotide

NM_121822.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI GeneID

831935

NCBI Official Full Name

glutamate dehydrogenase 1

NCBI Official Symbol

GDH1

NCBI Official Synonym Symbols

GLUTAMATE DECARBOXYLASE 1; glutamate dehydrogenase 1; GLUTAMATE DEHYDROGENASE 1; MRG7.13; MRG7_13

NCBI Protein Information

glutamate dehydrogenase 1

NCBI Summary

Encodes the 43 kDa alpha-subunit of the glutamate dehydrogenase with a putative mitochondrial transit polypeptide and NAD(H)- and alpha-ketoglutarate-binding domains. Mitochondrial localization confirmed by subcellular fractionation. Combines in several ratios with GDH2 protein (GDH-beta) to form seven isoenzymes. Catalyzes the cleavage of glycine residues. May be involved in ammonia assimilation under conditions of inorganic nitrogen excess. The enzyme is almost exclusively found in the mitochondria of stem and leaf companion cells.

UniProt Gene Name

GDH1

UniProt Synonym Gene Names

GDH 1

UniProt Protein Name

Glutamate dehydrogenase 1

UniProt Primary Accession

Q43314

UniProt Related Accession

Q43314

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