

Recombinant Human D2HGDH protein, His & T7-tagged

Cat. No. D2HGDH-1657H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human D2HGDH aa. (Arg56~Asp232 (Accession # Q8N465)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg56~Asp232
Description	This gene encodes D-2hydroxyglutarate dehydrogenase, a mitochondrial enzyme belonging to the FAD-binding oxidoreductase/transferase type 4 family. This enzyme, which is most active in liver and kidney but also active in heart and brain, converts D-2-hydroxyglutarate to 2-ketoglutarate. Mutations in this gene are present in D-2-hydroxyglutaric aciduria, a rare recessive neurometabolic disorder causing developmental delay, epilepsy, hypotonia, and dysmorphic features.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.8kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	6.7

GENE INFORMATION

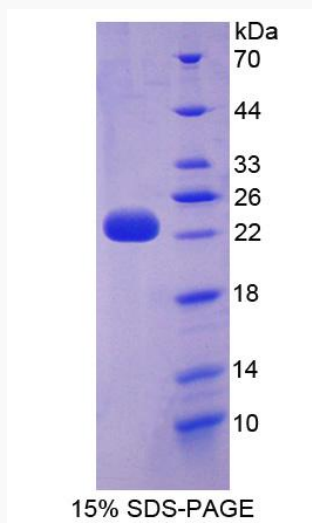
Gene Name	D2HGDH D-2-hydroxyglutarate dehydrogenase [Homo sapiens (human)]
Official Symbol	D2HGDH
Synonyms	D2HGDH; D-2-hydroxyglutarate dehydrogenase; D2HGD; D-2-hydroxyglutarate dehydrogenase, mitochondrial
Gene ID	728294
mRNA Refseq	NM_001287249.1
Protein Refseq	NP_001274178.1
UniProt ID	Q8N465

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SDS-PAGE



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