

## Recombinant Human D2HGDH protein, His & T7-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human D2HGDH aa. (Arg56~Asp232 (Accession # Q8N465)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Arg56~Asp232
<b>Description</b>	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.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 22.8kDa
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>95%
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.

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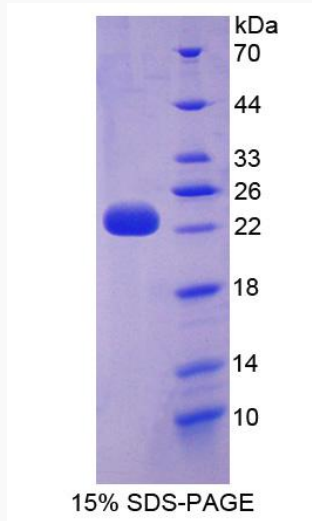
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date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

## GENE INFORMATION

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



SDS-PAGE



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