

# Recombinant Full Length Human D2HGDH Protein, GST-tagged

Cat. No. D2HGDH-6164HF Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Human MGC25181 full-length ORF ( AAH31817, 1 a.a. - 220 a.a.) recombinant protein with GST-tag at N-terminal.

### Species

Human

### Source

In Vitro Cell Free System

### ProteinLength

220 amino acids

### 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. [provided by RefSeq, Jul 2008]

### Molecular Mass


49.94 kDa

### AA Sequence

MLGEILSAFEFMDAVCMQLVGRHLHLASPVQESPFYVLIETSGSNAGHDAEKLGHFL  
EHALGSGLVTDGTMATDQRKVKMLWALRERITEALSRDGYVYKYDLSLPVERLYDIV  
TDLRARLGPFAKHVVGYPYHGLDGNLHLNVTAEAFSPSLLAALEPHVYEWTAGQQG  
SVSAEHGVGFRKRDVLGYSKPPGALQLMQQLKALLDPKGILNPYKTLPSQA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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; EC 1.1.99.-
<b>Gene ID</b>	728294
<b>mRNA Refseq</b>	NM_001287249
<b>Protein Refseq</b>	NP_001274178
<b>MIM</b>	609186
<b>UniProt ID</b>	Q8N465

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