

Recombinant Full Length Human D2HGDH Protein, C-Flag-tagged

Cat. No. D2HGDH-1752HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human D2HGDH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.8 kDa
AA Sequence	MLPRRPLAWPAWLLRGAPGAAGSWGPRVGPLARRGCCSAPGTPEVPLTRERYPV QRLPFSTVSKQDLAAF ERIVPGGVVTDPEALQAPNVDWLRTLGRGCSKVLLRPRTSE EVSHILRHCHERNLAVNPQGGNTGMVGGSV PVFDEILSTARMNRVLSFHSVSGILV CQAGCVLEELSRYVEERDFIMPLDLGAKGSCHIGGNVATNAGG LRFLRYGSLHGTV LGLEVVLADGTVLDCLTSLRKDNTGYDLKQLFIGSEGTLGIITTVSILCPPKPRAVN VA FLGCPGFAEVLQTFSTCKGMLGEILSAFEFMDAVCMQLVGRHLHLASPVQESPFYV

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LIETSGSNAGHD AEKLGHFLEHALGSGSLVTDGTMATDQRKVKMLWALRERITEALS
 RDGYVYKYDLSLPVERLYDIVTDLRA RLGPHAKHVVGYGHLGDGNLHLNVTAEAFS
 PSLLAALPHVYEWTAGQQGSVSAEHGVGFRKRDVLGYSK
 PPGALQLMQQLKALLDPKGILNPYKTLPSQATRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	D2HGDH D-2-hydroxyglutarate dehydrogenase [Homo sapiens (human)]
Official Symbol	D2HGDH
Synonyms	D2HGD
Gene ID	728294
mRNA Refseq	NM_152783.5

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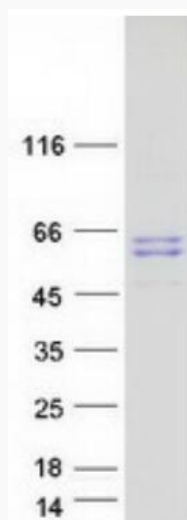
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Protein Refseq NP_689996.4

MIM 609186

UniProt ID Q8N465



Coomassie blue staining of purified D2HGDH protein.

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