

Recombinant Human DMGDH Protein, GST-tagged

Cat. No. DMGDH-2705H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DMGDH partial ORF (NP_037523.2, 556 a.a. - 665 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes an enzyme involved in the catabolism of choline, catalyzing the oxidative demethylation of dimethylglycine to form sarcosine. The enzyme is found as a monomer in the mitochondrial matrix, and uses flavin adenine dinucleotide and folate as cofactors. Mutation in this gene causes dimethylglycine dehydrogenase deficiency, characterized by a fishlike body odor, chronic muscle fatigue, and elevated levels of the muscle form of creatine kinase in serum. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Molecular Mass	37.84 kDa
AA Sequence	ANVIPKVGFTNISHMLTPKGRVYAELTVSHQSPGEFLLITGSGSELHDLRWIEEEAVK GGYDVEIKNITDELGVLGVAGPQARKVLQKLTSEDLSDDVFKFLQTKSLKVS
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array

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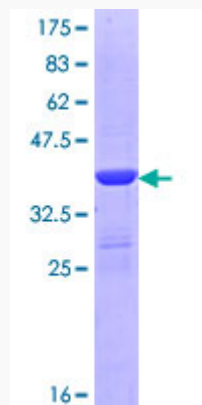
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	DMGDH dimethylglycine dehydrogenase [Homo sapiens (human)]
Official Symbol	DMGDH
Synonyms	DMGDH; dimethylglycine dehydrogenase; Dimethylglycine Dehydrogenase; ME2GLYDH; Dimethylglycine Dehydrogenase, Mitochondrial; EC 1.5.8.4; DMGDHD; dimethylglycine dehydrogenase, mitochondrial; EC 1.5.8.4
Gene ID	29958
mRNA Refseq	NM_013391
Protein Refseq	NP_037523
MIM	605849
UniProt ID	Q9UI17

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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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