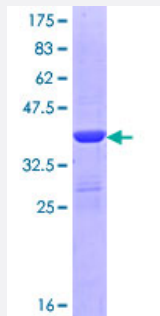


DMGDH (Human) Recombinant Protein (Q01)

Catalog # H00029958-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human DMGDH partial ORF (NP_037523.2, 556 a.a. - 665 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	ANVIPKVGFTNISHMLTPKGRVYAELTVSHQSPGEFLLITGSGSELHDLRWIEEEAVKGGYDVEIKNI TDELGVLGVAGPQARKVLQKLTSEDLSDDVFKFLQTKSLKVS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DMGDH

Entrez GeneID [29958](#)

GeneBank Accession# [NM_013391](#)

Protein Accession# [NP_037523.2](#)

Gene Name DMGDH

Gene Alias DMGDHD, ME2GLYDH

Gene Description dimethylglycine dehydrogenase

Omim ID [605849](#) [605850](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations -

Pathway

- [Glycine](#)
- [Metabolic pathways](#)

Disease

- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)