

Recombinant Human BDH1 Protein, GST-tagged

Cat. No. BDH1-181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BDH1 full-length ORF (NP_004042.1, 1 a.a. - 343 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a member of the short-chain dehydrogenase/reductase gene family. The encoded protein forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific requirement for phosphatidylcholine for optimal enzymatic activity. The encoded protein catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the two major ketone bodies produced during fatty acid catabolism. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq]
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	64.6 kDa
AA Sequence	MLATRLSRPLSRLPGKTLACDRENGARRPLLLGSTSFIPIGRRTYASAAEPVGSKA VLVTGCDSGFGFSLAKHLHSGFLVFAGCLMKDKGHDGVKELDSLNSDRLRTVQLN VCSSEEEVKVVEIVRSSLKDPEKGMWGLVNNAGISTFGEVEFTSLETYKQVAEVLN WGTVRMTKSFLPLIRRAKGRVNVNISSMLGRMANPARSPYCITKFGVEAFSDCLRYE MYPLGVKVSVEPGNFIAATSLYSPESIQAIKKMWEELPEVVRKDYGKKYFDEKIAK METYCSSGSTDTSPVIDAVTHALTATTPYTRYHPMDYYWWLRMQIMTHLPGAISDMI

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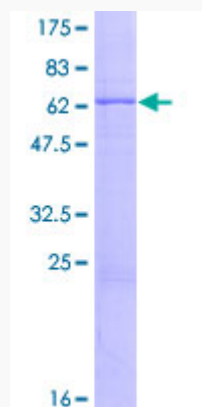
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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	BDH1 3-hydroxybutyrate dehydrogenase, type 1 [Homo sapiens]
Official Symbol	BDH1
Synonyms	BDH1; 3-hydroxybutyrate dehydrogenase, type 1; 3 hydroxybutyrate dehydrogenase (heart, mitochondrial) , BDH; D-beta-hydroxybutyrate dehydrogenase, mitochondrial; SDR9C1; short chain dehydrogenase/reductase family 9C; member 1; (R)-3-hydroxybutyrate dehydrogenase; 3-hydroxybutyrate dehydrogenase (heart, mitochondrial); short chain dehydrogenase/reductase family 9C, member 1; BDH; MGC2723; MGC4347; MGC9788;
Gene ID	622
mRNA Refseq	NM_004051
Protein Refseq	NP_004042
MIM	603063
UniProt ID	Q02338

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