

Recombinant Full Length Human BDH1 Protein, GST-tagged

Cat. No. BDH1-1681HF 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	In Vitro Cell Free System
ProteinLength	343 amino acids
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]
Molecular Mass	64.6 kDa
AA Sequence	MLATRLSRPL SRLPGKTLA CDRENGARRP LLLGSTSFIP IGRRTYASAA EPVGSKAVLV TGCDSGFGFS LAKHLHSGKF LVFAGCLMKD KGHGDKVELD SLNSDRLRTV QLNVCSSSEEV EKVVEIVRSS LKDPEKGMWG LVNNAIGISTF GEVEFTSLET YKQVAEVLNW GTVRMTKSFL PLIRRAKGRV VNISSMLGRM ANPARSPYCI TKFGVEAFSD CLRYEMYPLG VKVSVVEPGN FIAATSLYSP ESIQAIKKM WEELPEVVRK DYGGKYFDEK IAKMETYCSS GSTDTSPVID

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AVTHALTATT PYTRYHPMDY YWWLRMQIMT HLPGAISDMI YIR

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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