

Recombinant Full Length Human BDH1 Protein, GST-tagged

Cat. No. BDH1-1560HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BDH1 full-length ORF (AAH11964, 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]
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	63.47 kDa
AA Sequence	MLATRLSRPL SRLPGKTLA CDRENGARRP LLLGSTSFIP IGRRTYASAA EPVGSKAVLV TGCDSGFGFS LAKHLHSGKF LVFAGCLMKD KGHGDKVELD SLNSDRLRTV QLNVCSSSEEV EKVVEIVRSS LKDPEKGMWG LVNNAIGSTF GEVEFTSLET YKQVAEVLNW GTVRMTKSFL PLIRRAKGRV VNISSMLGRM

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ANPARSPYCI TKFGVEAFSD CLRYEMYPLG VKVSVVEPGN FIAATSLYSP
 ESIQAIKKM WEELPEVVRK DYGGKYFDEK IAKMETYCSSL GSTDTSPVID
 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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