

Recombinant Human BDH1 Protein, His-tagged

Cat. No. BDH1-456H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BDH1(Met1~Arg343) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1~Arg343
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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	41.8kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 98%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

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

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MIM	603063
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UniProt ID	Q02338
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