

Recombinant Human BDH1 Protein, His-tagged

Cat. No. BDH1-137H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BDH1, transcript variant 3, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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	Supplied as a 0.2 μM filtered solution of 50mM Tris, 1mM DTT, pH 7.5
Molecular Mass	40.3kD
AA Sequence	MGSSHHHHHHSSGLVPRGSHMLATRLSRPLSRLPGKTLACDRENGARRPLLGS TSFIPIGRRTYASAAEPVGSKAVLVTGCDSGFGFALAKHLHSGKFLVFAGCLMKDKG HDGVKELDSLNSDRLRTVQLNVCSSEEEVEKVVEIVRSSLKDPEKGMWGLVNNAGIS TFGEVEFTSLETYKQVAEVLNLTGTVRMTKSFLPLIRRAKGRVVNISSMLGRMANPA RSPYCITKFGVEAFSDCLRYEMYPLGVKVS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

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_203314

Protein Refseq NP_976059

MIM 603063

UniProt ID Q02338

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