# Recombinant Human BDH1 cell lysate

**Cat. No.** BDH1-168HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **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. |
| **Size** | 100 ul |
| **Storage Buffer** | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue) |
| **Applications** | Western Blot; |

## GENE INFORMATION

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| **Gene Name** | BDH1 3-hydroxybutyrate dehydrogenase, type 1 [ Homo sapiens ] |
| **Official Symbol** | BDH1 |
| **Synonyms** | BDH1; 3-hydroxybutyrate dehydrogenase, type 1; 3 hydroxybutyrate dehydrogenase |

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| | (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 |
| **Chromosome Location** | 3q29 |
| **Pathway** | Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Ketone body metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; |
| **Function** | 3-hydroxybutyrate dehydrogenase activity; 3-hydroxybutyrate dehydrogenase activity; nucleotide binding; oxidoreductase activity; phospholipid binding; |

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