

Recombinant Human BDH1 cell lysate

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

SPECIFICATION

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

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;

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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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