

Recombinant Human BDH2 protein, His-tagged

Cat. No. BDH2-3452H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BDH2(1-245aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-245 a.a.
Description	BDH2, also known as DHRS6, belongs to the short-chain dehydrogenases/reductases (SDR) family. This protein may play an important role in the peripheral utilization of 3-hydroxybutyrate. The cytoplasmic localization with its high ratio of oxidized NAD ⁺ , the NAD ⁺ dependence and the kinetic parameters of BDH2 make it suitable to convert high levels of circulating 3-hydroxybutyrate into acetoacetate.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl
Molecular Mass	28.8 kDa (265aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSHEVERLDVLFN VAGFVHHGTV LDCEEKDWDF SMNLNVRS MY LMIKAFLPKM LAQKSGNIIN MSSVASSVKG VVNRCVYSTT KAAVIGLTKS MGRLDGKVII LTAAAQGIGQ AAALAFAREG AKVIATDINE SKLQELEKYP GIQTRVLDVT KKKQIDQFANVAADFIQGGI RCNCVCPGTV DTPSLQERIQ ARGNP EEAR N DFLKRQKTGR FATAEEIAML CVYLASDESA

 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

YVTGNPVIID GGWSL

Purity >95% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by BCA assay)

GENE INFORMATION

Gene Name BDH2 3-hydroxybutyrate dehydrogenase, type 2 [Homo sapiens]

Official Symbol BDH2

Synonyms BDH2; 3-hydroxybutyrate dehydrogenase, type 2; dehydrogenase/reductase (SDR family) member 6 , DHRS6; 3-hydroxybutyrate dehydrogenase type 2; FLJ13261; PRO20933; SDR15C1; short chain dehydrogenase/reductase family 15C; member 1; UCPA OR; UNQ6308; oxidoreductase UCPA; R-beta-hydroxybutyrate dehydrogenase; dehydrogenase/reductase SDR family member 6; dehydrogenase/reductase (SDR family) member 6; short chain dehydrogenase/reductase family 15C, member 1; DHRS6; EFA6R; UCPA-OR;

Gene ID 56898

mRNA Refseq NM_020139

Protein Refseq NP_064524

MIM

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UniProt ID	Q9BUT1
Chromosome Location	4q24
Pathway	Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Synthesis and degradation of ketone bodies, organism-specific biosystem; Synthesis and degradation of ketone bodies, conserved biosystem; ketolysis, organism-specific biosystem; ketolysis, conserved biosystem;
Function	3-hydroxybutyrate dehydrogenase activity; NAD binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-CH group of donors, NAD or NADP as acceptor;