

Recombinant human BDH1 protein

Catalog Number: ATGP1341

PRODUCT INFORMATION

Expression system

E.coli

Domain

47-343aa

UniProt No.

Q02338

NCBI Accession No.

NP_976059

Alternative Names

D-beta-hydroxybutyrate dehydrogenase, BDH, MGC2723, MGC4347, MGC9788, SDR9C1

PRODUCT SPECIFICATION

Molecular Weight

35.3 kDa (318aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol 0.2M NaCl, 2mM DTT, 0.1mM PMSF

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BDH1 is a member of the short-chain dehydrogenase/reductase gene family. This protein forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific requirement for phosphatidylcholine for optimal enzymatic activity. It catalyzes the interconversion of acetoacetate and (R) -3-hydroxybutyrate, the two major ketone bodies produced during fatty acid catabolism. Recombinant human BDH1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>ASAAEPVGS KAVLVTGCDS GFGFSLAKHL HSKGFLVFAG CLMKDKGHDG
VKELDSLNSD RLRTVQLNVC SSEEVEKVVE IVRSSLKDPE KGMWGLVNNA GISTFGEVEF TSLETYKQVA EVNLWGTVRM
TKSFLPLIRR AKGRVVNISS MLGRMANPAR SPYCITKFGV EAFSDCLRYE MYPLGVKVSV VEPGNFIAAT SLYSPESIQ
IAKKMWEELP EVVRKDYGKK YFDEKIAKME TYCSSGSTDT SPVIDAVTHA LTATTPYTRY HPMDYYWWLR MQIMTHLPGA
ISDMIYIR

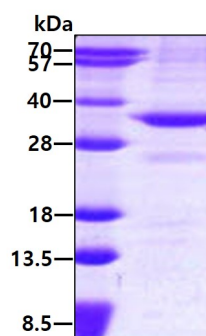
General References

Marks A.R. et al. (1992) J Biol Chem. 267:15459-15463.

Adami P. et al. (1993) Biochem. J. 292: 863-872.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.