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Recombinant human BDH1 protein

Catalog Number: ATGP1341

PRODUCT INFORMATION

Expression system

E.coli

Domain

47-343aa

UniProt No.

002338

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

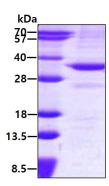
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General References

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.

