

Recombinant human BDH2 protein

Catalog Number: ATGP0882

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-245aa

UniProt No.

Q9BUT1

NCBI Accession No.

NP_064524

Alternative Names

3-hydroxybutyrate dehydrogenase type 2, DHRS6, EFA6R, FLJ13261, PRO20933, SDR15C1, uCPA-OR, uNQ6308

PRODUCT SPECIFICATION

Molecular Weight

28.8 kDa (265aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

Purity

> 95% 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

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. Recombinant human BDH2 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

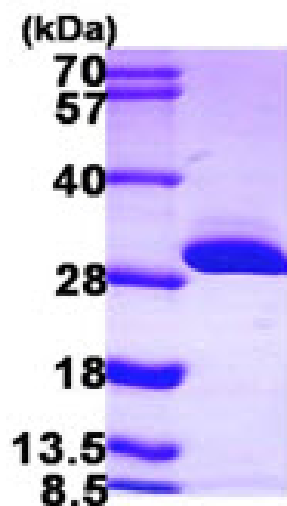
MGSSHHHHHHH SSGLVPRGSH MGRLDGKVII LTAAAQGIGQ AAALAFAREG AKVIATDINE SKLQELEKYP GIQTRVLDVT
KKKQIDQFAN EVERLDVLFN VAGFVHHGTV LDCEEKDWDF SMNLNVRSMY LMIKAFLPKM LAQKSGNIIN MSSVASSVKG
VVNRCVYSTT KAAVIGLTKS VAADFIQGGI RCNCVCPGTV DTPSLQERIQ ARGNPEEARN DFLKRQKTGR FATAEEIAML
CVYLASDESA YVTGNPVIID GGWSL

General References

Guo K., et al. (2006). J. Biol. Chem., 281: 10291-10297
Ito K., et al. (2006). J. Mol. Biol., 355: 722-733.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)