

# Recombinant human BDH2 protein

Catalog Number: ATGP0882

## PRODUCT INFORMATION

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### 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

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### 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

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### 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<sup>+</sup>, the NAD<sup>+</sup> 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

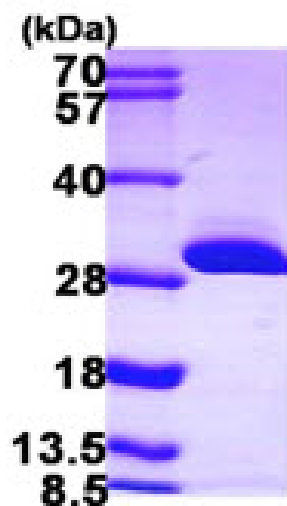
MGSSHHHHHH SSSLVPRGSH MGRLDGKVII LTAAAQGIGQ AAALAFAREG AKVIATDINE SKLQELEKYP GIQTRVLDVT  
KKKQIDQFAN EVERLDVLFN VAGFVHHGTV LDCEEKDWDF SMNLNVRSMY LMIKAFLPKM LAQKSGNIIN MSSVASSVKG  
VVNRCVYSTT KAAVIGLTKS VAADFIQGGI RCNCVCPGTV DTPSLQERIQ ARGNPPEARN DFLKRQKTGR FATAEEIAML  
CVYLASDESA YVTGNPVIID GGWSL

### 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)