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## Product Data Sheet

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Product Name: BDH2 Human  
 Cat. No.: GP21438  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	3-hydroxybutyrate dehydrogenase type 2; FLJ13261; PRO20933; SDR15C1; UCPA-OR; UNQ6308; dehydrogenase/reductase (SDR family) member 6; Oxidoreductase UCPA; DHRS6; R-beta-hydroxybutyrate dehydrogenase; EFA6R; EC 1.1.1.30.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGRLDGKVII LTAAAQGIGQ AAALAFAREG AKVIATDINE SKLQELEKYP GIQTRVLDVT KKKQIDQFAN EVERLDVLFN VAGFVHHGTV LDCEEKDWDF SMNLNVRSMY LMIKAFLPKM LAQKSGNIIN MSSVASSVKG VVNRCVYSTT KAAVIGLTKS VAADFIQQGI RCNCVCPGTV DTPSLQERIQ ARGNPEEARN DFLKRQKTGR FATAEEIAML CVYLASDESA YVTGNPVIID GGWSL		
Formulation	The BDH2 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 0.1M NaCl and 10% glycerol.		

### Introduction

BDH2 is a member of the short-chain dehydrogenases/reductases (SDR) family. BDH2 protein has a significant part in the peripheral utilization of 3-hydroxybutyrate. BDH2 can convert high levels of circulating 3-hydroxybutyrate into acetoacetate due to cytoplasmic localization in high ratio of oxidized NAD<sup>+</sup>, the NAD<sup>+</sup> dependence and the kinetic parameters.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Background

BDH2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 265

**Caution: Product has not been fully validated for medical applications. For research use only.**

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amino acids (1-245a.a.) and having a molecular mass of 28.8kDa. BDH2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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