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## Product Data Sheet

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Product Name: BDH1 Human  
 Cat. No.: GP21437  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	D-beta-hydroxybutyrate dehydrogenase; mitochondrial; BDH; 3-hydroxybutyrate dehydrogenase; BDH1; SDR9C1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MASAAEPVGS KAVLVTGCDS GFGFSLAKHL HSKGFLVFAG CLMKDKGHDG VKELDSLNSD RLRTVQLNVC SSEEVEKVVE IVRSSLKDPE KGMWGLVNNA GISTFGEVEF TSLETYKQVA EVNLWGTVRM TKSFLPLIRR AKGRVNNISS MLGRMANPAR SPYCITKFGV EAFSDCLRYE MYPLGVKVSV VEPGNFIAAT SLYSPESIQA IAKKMWEELP EVVRKDYGKK YFDEKIAKME TYCSSGSTDT SPVIDAVTHA LTATTPYTRY HPMDYYWWLR MQIMTHLPGA ISDMIYIR.		
Formulation	The BDH1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.2M NaCl, 2mM DTT and 0.1mM PMSF.		

### Introduction

BDH1 belongs to the short-chain dehydrogenase/reductase gene family. BDH1 forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific necessity for phosphatidylcholine for optimal enzymatic activity. BDH1 catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the 2 main ketone bodies formed during fatty acid catabolism.

### 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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

BDH1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

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

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chain containing 318 amino acids (47-343) and having a molecular mass of 35.3kDa. BDH1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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