

## BDH1 Human

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

**Catalog #:**ENPS-222

For research use only.

**Synonyms:**D-beta-hydroxybutyrate dehydrogenase, mitochondrial, BDH, 3-hydroxybutyrate dehydrogenase, BDH1, SDR9C1.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MASAAEPVGS KAVLVTGCDS  
GFGFLAKHL HSKGFLVFAG CLMKDKGHDG VKELDSLNSD RLRTVQLNVC SSEEVEKVVE  
IVRSSLDPE KGMWGLVNNA GISTFGEVEF TSLETYKQVA EVNLWGTVRM TKSFLPLIRR  
AKGRVVNISS MLGRMANPAR SPYCITKFGV EAFSDCLRYE MYPLGVKVS VEPGNFIAAT  
SLYSPESIQ IA

**Purity:**Greater than 85% as determined by SDS-PAGE.

### 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.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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