

## 32-2181: BDH1 Recombinant Protein

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

### Description

Source : E.coli. 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. 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.

### Product Info

**Amount :** 5 µg  
**Purification :** Greater than 85% as determined by SDS-PAGE.  
**Content :** The BDH1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.2M NaCl, 2mM DTT and 0.1mM PMSF.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MASAAEPVGS KAVLVTGCDS GFGFSLAKHL HSKGFLVFAG  
CLMKDKGHDG VKELDSLNSD RLRTVQLNVC SSEEVEKVVE IVRSSLKDPE KGMWGLVNNA GISTFGEVEF  
TSLETYKQVA EVNLWGTVRM TKSFLPLIRR AKGRVNVNISS MLGRMANPAR SPYCITKFGV EAFSDCLRYE  
MYPLGVKVSV VEPGNFIAAT SLYSPESIQ AIAKKMWEELP EVVRKDYGKK YFDEKIAKME TYCSSGSTDT  
SPVIDAVTHA LTATTPYTRY HPMDYYWWLR MQIMTHLPGA ISDMIYIR.

