

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
GFGFSLAKHL HSKGFLVFAG CLMKDKGHDG VKELDSLNSD RLRTVQLNVC SSEEVEKVVE
IVRSSLKDPE KGMWGLVNNA GISTFGEVEF TSLETYKQVA EVNLWGTVRM TKSFLPLIRR
AKGRVVNISS MLGRMANPAR SPYCITKFGV EAFSDCLRYE MYPLGVKVSV 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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