

BDH1 Protein, Human, Recombinant (His)

General Information

Synonyms:	D-β-Hydroxybutyrate Dehydrogenase Mitochondrial;D-Beta-Hydroxybutyrate Dehydrogenase Mitochondrial;3-Hydroxybutyrate Dehydrogenase;BDH
Protein Construction:	47-343 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q02338
Molecular Weight:	37.1 kDa (Predicted)
AA Sequence:	ASAAEPVGSKAVLVTGCDSGFGFSLAKHLHSGFLVFAGCLMKDKGHDGKELDSLNSDRLRTVQLNVCSSSE EVEKVV EIVRSSLKDPEKGMWGLVNNAGISTFGEVEFTSLETYKQVAEVLNLTGTVRMTKSFLPLIRRAKGRVV NISSMLGRMANPARSPYCITKFGVEAFSDCLRYEMYPLGVKVSVVEPGNFIAATSLYSPESIQAIKKMWEELP EVVRKDYGKKYFDEKIAKMETYCSSGSTDTSPVIDAVTHALTATPYTRYHPMDYYWVLRMQIMTHLPGAISD MIYIR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Tris/PBS-based buffer

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

D-Beta-Hydroxybutyrate Dehydrogenase Mitochondrial (BDH) is a member of the short-chain dehydrogenases/reductases (SDR) family. BDH is localized in the mitochondrion matrix. BDH forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific necessity for phosphatidylcholine for optimal enzymatic activity. BDH catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the 2 main ketone bodies formed during fatty acid catabolism.

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