

## 32-8127: Recombinant Human D- beta-Hydroxybutyrate Dehydrogenase Mitochondrial/BDH1 (N-6His)

**Gene :** BDH1  
**Gene ID :** 622  
**Uniprot ID :** Q02338

### Description

Source: E. coli.

MW :40.3kD.

Recombinant Human 3-Hydroxybutyrate Dehydrogenase is produced by our E.coli expression system and the target gene encoding Met1-Arg343 is expressed with a 6His tag at the N-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 50mM Tris, 1mM DTT, pH 7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMLATRLSRPLSRLPGKTLSACDRENGARRPLLLGSTSFIPIGRRTYASAAEPVG  
SKAVLVTGCDSGFGFALAKHLHSGFLVFAGCLMKDKGHDGKELDSLNSDLRLTVQLNVCSSSEEVEKVVEIV  
RSSLDPEKGMWGLVNNAGISTFGEVEFTSLETYKQVAEVLWGTVRMTKSFLPLIRRAKGRVNVNISSMLGRM  
ANPARSPYCITKFGVEAFSDCLRYEMYPLGVKVSVEPGNFIAATSLYSPESIQAIKKMWEELPEVVRKDYGKK  
YFDEKIAKMETYCSSGSTDTSPVIDAVTHALTATTPYTRYHPMDYYWLRMQIMTHLPGAISDMIYIR

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.