

# Recombinant Human BDH2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** BDH2-4061H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | BDH2 MS Standard C13 and N15-labeled recombinant protein (NP_064524) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HEK293   |
| <b>Description</b>      | Dehydrogenase that mediates the formation of 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin and associates with LCN2, thereby playing a key role in iron homeostasis and transport. Also acts as a 3-hydroxybutyrate dehydrogenase. |
| <b>Molecular Mass</b>   | 26.8 kDa   |
| <b>AA Sequence</b>      | MGRLDGKVIILTAAAQGIGQAAALAFAREGAKVIATDINESKLQELEKYPGIQTRVLDV<br>TKKKQIDQFANEVERLDVLFNVAGFVHHGTVLDCEEKDWDFSMNLNVRSMYLMIKA<br>FLPKMLAQKSGNIINMSSVASSVKGVVNRCVYSTTKAAVIGLTKSVAADFIQQGIRCN<br>CVCPGTVDTPSLQERIQARGNPEEARNDFLKRQKTGRFATAEEIAMLCVYLASDEST<br>YVTGNPVIIDGGWSLTRTRPLEQKLISEEDLAANDILDYKDDDDKV     |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.   |

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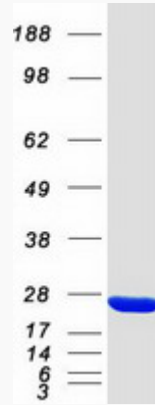
|                         |   |
|-------------------------|---|
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.   |
| <b>Concentration</b>    | 50 µg/mL as determined by BCA   |
| <b>Storage Buffer</b>   | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.   |
| <b>GENE INFORMATION</b> |   |
| <b>Gene Name</b>        | BDH2 3-hydroxybutyrate dehydrogenase 2 [ Homo sapiens (human) ]   |
| <b>Official Symbol</b>  | BDH2  |
| <b>Synonyms</b>         | BDH2; 3-hydroxybutyrate dehydrogenase, type 2; dehydrogenase/reductase (SDR family) member 6, DHRS6; 3-hydroxybutyrate dehydrogenase type 2; FLJ13261; PRO20933; SDR15C1; short chain dehydrogenase/reductase family 15C; member 1; UCPA OR; UNQ6308; oxidoreductase UCPA; R-beta-hydroxybutyrate dehydrogenase; dehydrogenase/reductase SDR family member 6; dehydrogenase/reductase (SDR family) member 6; short chain dehydrogenase/reductase family 15C, member 1; DHRS6; EFA6R; UCPA-OR; |
| <b>Gene ID</b>          | 56898   |
| <b>mRNA Refseq</b>      | NM_020139   |
| <b>Protein Refseq</b>   | NP_064524   |
| <b>UniProt ID</b>       | Q9BUT1  |

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**SDS-PAGE**



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