

# Product Data Sheet

## Recombinant Human BDH1 Protein

| Catalog #                                                                                                                                                                                                                                                                                                                             | Source                                                                                                                                                                                                                                                                                                                                                                                                         | Reactivity | Applications        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|
| CRP1111                                                                                                                                                                                                                                                                                                                               | E. coli                                                                                                                                                                                                                                                                                                                                                                                                        | Human      | E, WB, SDS-PAGE, MS |
| Description                                                                                                                                                                                                                                                                                                                           | Recombinant Human BDH1 Protein 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.                                                                                                                                                                                                                                           |            |                     |
| Form                                                                                                                                                                                                                                                                                                                                  | Liquid in a 0.2 μM filtered solution of 50mM Tris, 1mM DTT, pH 7.5.                                                                                                                                                                                                                                                                                                                                            |            |                     |
| Gene Symbol                                                                                                                                                                                                                                                                                                                           | BDH1                                                                                                                                                                                                                                                                                                                                                                                                           |            |                     |
| Alternative Names                                                                                                                                                                                                                                                                                                                     | BDH; D-beta-hydroxybutyrate dehydrogenase mitochondrial; BDH; 3-hydroxybutyrate dehydrogenase                                                                                                                                                                                                                                                                                                                  |            |                     |
| Entrez Gene                                                                                                                                                                                                                                                                                                                           | 622 (Human)                                                                                                                                                                                                                                                                                                                                                                                                    |            |                     |
| SwissProt                                                                                                                                                                                                                                                                                                                             | Q02338 (Human)                                                                                                                                                                                                                                                                                                                                                                                                 |            |                     |
| Purity                                                                                                                                                                                                                                                                                                                                | Greater than 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                           |            |                     |
| Chemical Structure                                                                                                                                                                                                                                                                                                                    | MGSSHHHHHH SSGLVPRGSH MLATRLSRPL SRLPGKTLA CDRENGARRP LLLGSTSFIP IGRRTYASAA EPVGSKAVLV TGCDSGFGFA LAKHLHSGKF LVFAGCLMKD KGHDGVKELD SLNSDRLRTV QLNVCSSSEEV EKVVEIVRSS LKDPEKGMWG LVNNAGISTF GEVEFTSLET YKQVAEVNLW GTVRMTKSFL PLIRRAKGRV VNISSMLGRM ANPARSPYCI TKFGVEAFSD CLRYEMYPLG VKVSVVEPGN FIAATSLYSP ESIQAIKKM WEELPEVVRK DYGKKYFDEK IAKMETYCSS GSTDTSPVID AVTHALTATT PYTRYHPMDY YWWLRMQIMT HLPGAISDMI YIR |            |                     |
| Quality Control                                                                                                                                                                                                                                                                                                                       | Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.                                                                                                                                                                                                                                                                                                                                           |            |                     |
| Directions for Use                                                                                                                                                                                                                                                                                                                    | Always centrifuge tubes before opening. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                |            |                     |
| Storage/Stability                                                                                                                                                                                                                                                                                                                     | Store it at -20°C to -80°C for one year.                                                                                                                                                                                                                                                                                                                                                                       |            |                     |
| Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference |                                                                                                                                                                                                                                                                                                                                                                                                                |            |                     |
| Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                |            |                     |

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