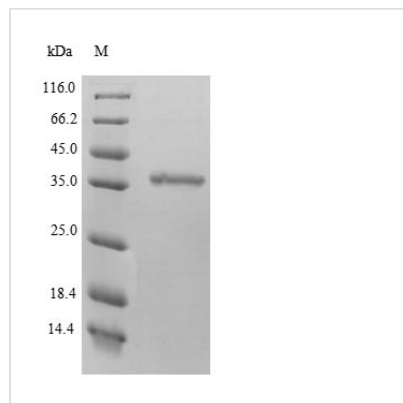




Recombinant Human D-beta-hydroxybutyrate dehydrogenase, mitochondrial (BDH1)

Product Code	CSB-EP002648HU
Abbreviation	Recombinant Human BDH1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q02338
Alias	3-hydroxybutyrate dehydrogenase;Short chain dehydrogenase/reductase family 9C member 1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ASAAEPVGSKAVLVTGCDSGFGFSLAKHLHSGFLVFAGCLMKDKGHDGVKE LDSLNSDRLRTVQLNVCSSSEVEKVVEIVRSSLKDPEKGMWGLVNNAGISTFG EVEFTSLETYKQVAEVLNWTGVRMTKSFLPLIRRAKGRVNNISSMLGRMANPA RSPYCITKFGVEAFSDCLRYEMYPLGVKVSVEPGNFIAATSLYSPESIQAIKK MWEELPEVVRKDYGKKYFDEKIAKMETYCSSGSTDTSPVIDAVTHALTATTPY TRYHPMDYYWWLRMQIMTHLPGAISDMIYIR
Research Area	Cancer
Source	E.coli
Target Names	BDH1
Expression Region	47-343aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	37.1kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The region for expressing recombinant Human BDH1 contains amino acids 47-343. This BDH1 protein is theoretically predicted to have a molecular weight of 37.1 kDa. This BDH1 protein is produced using e.coli expression system. The N-terminal 6xHis tag was fused into the coding gene segment of BDH1, making it easier to detect and purify the BDH1 recombinant protein in the later stages of expression and purification.

The research on BAG family molecular chaperone regulator 2 (BAG2) covers multiple fields, including energy metabolism, obesity, diabetes, and neuroscience. It primarily engages in intracellular energy metabolism, particularly associated with ketone body synthesis and metabolism. In studies of metabolic disorders such as obesity and diabetes, scientists have identified the crucial role of BAG2 in regulating the levels of D-β-hydroxybutyrate in the body. This is closely linked to the significance of ketone bodies as an alternative energy source during periods of starvation and physical activity. Additionally, BAG2 is implicated in the functioning of the nervous system, with some research suggesting its potential involvement in the pathogenesis of neurodegenerative diseases.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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