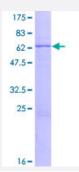


Full-Length

BDH1 (Human) Recombinant Protein (P02)

Catalog # H00000622-P02 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human BDH1 full-length ORF (NP_004042.1, 1 a.a 343 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLATRLSRPLSRLPGKTLSACDRENGARRPLLLGSTSFIPIGRRTYASAAEPVGSKAVLVTGCDSG FGFSLAKHLHSKGFLVFAGCLMKDKGHDGVKELDSLNSDRLRTVQLNVCSSEEVEKVVEIVRSS LKDPEKGMWGLVNNAGISTFGEVEFTSLETYKQVAEVNLWGTVRMTKSFLPLIRRAKGRVVNISS MLGRMANPARSPYCITKFGVEAFSDCLRYEMYPLGVKVSVVEPGNFIAATSLYSPESIQAIAKKMW EELPEVVRKDYGKKYFDEKIAKMETYCSSGSTDTSPVIDAVTHALTATTPYTRYHPMDYYWWLRM QIMTHLPGAISDMIYIR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	64.6
Interspecies Antigen Sequence	Mouse (86); Rat (87)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.



Product Information

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — BDH1	
Entrez GenelD	<u>622</u>
GeneBank Accession#	NM_004051.4
Protein Accession#	NP_004042.1
Gene Name	BDH1
Gene Alias	BDH, MGC2723, MGC4347, MGC9788, SDR9C1
Gene Description	3-hydroxybutyrate dehydrogenase, type 1
Omim ID	603063
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a member of the short-chain dehydrogenase/reductase gene family. The encoded protein forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific requirement for phosphatidylcholine for optimal enzymatic activity. The encoded protein catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the two major ketone bodies produced during fatty acid catabolism. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq
Other Designations	(R)-3-hydroxybutyrate dehydrogenase 3-hydroxybutyrate dehydrogenase 3-hydroxybutyrate dehydrogenase 3-hydroxybutyrate dehydrogenase, mitochondrial short chain dehydrogenase/reductase family 9C, member 1



Pathway

- Butanoate metabolism
- Metabolic pathways
- Synthesis and degradation of ketone bodies