

## Product datasheet for **AR50166PU-S**

### **BDH1 (47-343, His-tag) Human Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	BDH1 (47-343, His-tag) human recombinant protein, 10 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MASAAEPVGS KAVLVTGCDS GFGFSLAKHL HSKGFLVFAG CLMKDKGHDG VKELDSLNSD RLRTVQLNVC SSEEVEKVE IVRSSLKDPE KGMWGLVNNA GISTFGEVEF TSLETYKQVA EVNLWGTVRM TKSFLPLIRR AKGRVNISS MLGRMANPAR SPYCITKFGV EAFSDCLRYE MYPLGVKVSV VEPGNFIAAT SLYSPESIQ AIAKKMWEELP EWRKDYGKK YFDEKIAKME TYCSSGSTD T SPVIDAVTHA LTATTPYTRY HPMDYYWWLR MQIMTHLPGA ISDMIYIR
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	35.3 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>85% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 30% glycerol 0.2M NaCl, 2 mM DTT, 0.1 mM PMSF
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human BDH1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_004042</a>
<b>Locus ID:</b>	622
<b>UniProt ID:</b>	<a href="#">Q02338</a>
<b>Cytogenetics:</b>	3q29
<b>Synonyms:</b>	BDH; SDR9C1



[View online »](#)

**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, Jul 2008]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

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

**Product images:**