

Datasheet for ABIN1096095
BDH2 Protein (AA 1-245) (His tag)



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Overview

Quantity:	50 µg
Target:	BDH2
Protein Characteristics:	AA 1-245
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BDH2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human 3-Hydroxybutyrate Dehydrogenase Type 2/BDH2/DHRS6 (N-6His)
Sequence:	MGSSHHHHHH SSSLVPRGSH MGRLDGKVII LTAAAQGIGQ AAALAFAREG AKVIATDINE SKLQELEKYP GIQTRVLDVT KKKQIDQFAS EVERLDVLFN VAGFVHHGTV LDCEEKDWDF SMNLNVRSMY LMIKAFLPKM LAQKSGNIIN MSSVASSVKG VVNRVCVYSTT KAAVIGLTKS VAADFIQQGI RCNCVCPGTV DTPSLQERIQ ARGNPEEARN DFLKRQKTGR FATAEEIAML CVYLASDESA YVTGNPVIID GGWSL
Characteristics:	Recombinant Human 3-Hydroxybutyrate Dehydrogenase Type 2 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Leu245) of Human BDH2 fused with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	BDH2
Alternative Name:	BDH2 (BDH2 Products)
Sub Type:	Fusionprotein
Background:	<p>3-Hydroxybutyrate Dehydrogenase Type 2 belongs to the short-chain dehydrogenases/reductases (SDR) family. 3-Hydroxybutyrate Dehydrogenase Type 2 may play an important role in the peripheral utilization of 3-hydroxybutyrate. The cytoplasmic localization with its high ratio of oxidized NAD⁺, the NAD⁺ dependence and the kinetic parameters of 3-Hydroxybutyrate Dehydrogenase Type 2 make it suitable to convert high levels of circulating 3-hydroxybutyrate into acetoacetate.</p> <p>Alternative Names: 3-Hydroxybutyrate Dehydrogenase Type 2, Dehydrogenase/Reductase SDR Family Member 6, Oxidoreductase UCPA, R-Beta-Hydroxybutyrate Dehydrogenase, BDH2, DHRS6</p>
Molecular Weight:	28.9 kDa
UniProt:	Q9BUT1
Pathways:	Transition Metal Ion Homeostasis, Monocarboxylic Acid Catabolic Process

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 100 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months