

Datasheet for ABIN7559409

BDH2 Protein (AA 1-245) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	BDH2
Protein Characteristics:	AA 1-245
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BDH2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Bdh2 Protein expressed in mammalien cells.
Sequence:	<p>MGRLDGKVIV LTAAAQGIGR ASALAFAREG AKVIATDINE SKLQELESYR GIQTRVLDVT</p> <p>KKRQIDQFAS EIERIDVLFN VAGFVHHGTI LDCEEKDWDF SMNLNVRSMF LMIKAFLPKM</p> <p>LAQKSGNIIN MSSVASSIKG VENRCVYSAT KAAVIGLTKS VAADFIQQGI RCNCVCPGTV</p> <p>DTPSLQERIQ ARDNPKEALK TFLNRQKTGR FASAEVALL CVYLASDESA YVTGNPVIID GGWSL</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary.</p> <p>In case you have a special request, please contact us.</p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and

Product Details

- transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	BDH2
Alternative Name:	Bdh2 (BDH2 Products)
Background:	<p>Dehydrogenase/reductase SDR family member 6 (EC 1.1.1.-) ((R)-beta-hydroxybutyrate dehydrogenase) (3-hydroxybutyrate dehydrogenase type 2) (EC 1.1.1.30) (4-oxo-L-proline reductase) (EC 1.1.1.104) (Oxidoreductase UCPA) (Short chain dehydrogenase/reductase family 15C member 1),FUNCTION: NAD(H)-dependent dehydrogenase/reductase with a preference for cyclic substrates (By similarity). Catalyzes stereoselective conversion of 4-oxo-L-proline to cis-4-hydroxy-L-proline, likely a detoxification mechanism for ketoproline (By similarity). Mediates the formation of 2,5-dihydroxybenzoate (2,5-DHBA), a siderophore that chelates free cytoplasmic iron and associates with LCN2, thereby regulating iron transport and homeostasis while protecting cells against free radical-induced oxidative stress. The iron-siderophore complex is imported into mitochondria, providing an iron source for mitochondrial metabolic processes in particular heme synthesis (PubMed:20550936, PubMed:24863067, PubMed:24777603). May act as a 3-hydroxybutyrate dehydrogenase (By similarity).</p> <p>{ECO:0000250 UniProtKB:D4A1J4, ECO:0000250 UniProtKB:Q9BUT1, ECO:0000269 PubMed:20550936, ECO:0000269 PubMed:24777603, ECO:0000269 PubMed:24863067}., FUNCTION: (Microbial infection) May play a role in susceptibility to bacterial infection by providing an assimilable source of iron that is exploited by pathogenic bacteria. Host iron-siderophore complexes can be used by bacteria to promote</p>

Target Details

	their own growth and pathogenicity. {ECO:0000269 PubMed:24863067}.
Molecular Weight:	26.8 kDa
UniProt:	Q8JZV9
Pathways:	Transition Metal Ion Homeostasis, Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months