

Datasheet for ABIN7563387
HSD17B4 Protein (AA 1-735) (His tag)



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Overview

Quantity:	1 mg
Target:	HSD17B4
Protein Characteristics:	AA 1-735
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSD17B4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Hsd17b4 Protein expressed in mammalien cells.
Sequence:	MASPLRFDGR VVLVTGAGGG LGRAYALAF A ERGALVIVND LGGDFKIGK GSSAADKVVA EIRRKGGKAV ANYDSVEAGE KLVKTALDTF GRIDVVVNN A GILRDRSFSR ISDEDWDIIH RVHLRGSFQV TRAAWDHMKK QNYGRILMTS SASGIYGNFG QANYSAAKLG ILGLCNTLAI EGRKNNIHCN TIAPNAGSRM TETVLPEDLV EALKPEYVAP LVLWLCHESC EENGGLFEVG AGWIGKLRWE RTLGAIVRKR NQPMTPEAVR DNWEKICDFS NASKPQTIQE STGGIVEVLH KVDSEGISPN RTSHAAPAAT SGFVGAVGHK LPSFSSSYTE LQSIMYALGV GASVKNPKDL KFVYEGSADF SCLPTFGVIV AQKSMMNGGL AEVPGLSFNF AKALHGEQYL ELYKPLPRSG ELKCEAVIAD ILDKGSGVVI VMDVYSYSGK ELICYNQFSV FVVGSGGFGG KRTSEKLLAA VAVPNRPPDA VLRDATSLNQ AALYRLSGDW NPLHIDPDF A SVAGFEKPIL HGLCTFGFSA RHVLQQFADN DVSRFKAIV RFAKPVYPGQ TLQTEMWKEG NRIHFQTKVH ETGDVVISNA YVDLVPASGV STQTPSEGGE LQSALVFGEI GRRLKSVGRE VVKKANAVFE WHITKGGTVA

Product Details

AKWTIDLKSG SGEVYQGPAK GSADVTHIIS DEDFMEVWFG KLDPQKAFFS GRLKARGNIM
LSQKLQMILK DYAKL **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. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and 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:

HSD17B4

Alternative Name:

Hsd17b4 ([HSD17B4 Products](#))

Background:

Peroxisomal multifunctional enzyme type 2 (MFE-2) (17-beta-hydroxysteroid dehydrogenase 4) (17-beta-HSD 4) (D-bifunctional protein) (DBP) (Multifunctional protein 2) (MFP-2) [Cleaved into: (3R)-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.n12), Enoyl-CoA hydratase 2 (EC 4.2.1.107) (EC 4.2.1.119) (3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase)],FUNCTION: Bifunctional enzyme acting on the peroxisomal fatty acid beta-oxidation pathway (PubMed:17442273). Catalyzes two of the four reactions in fatty acid degradation: hydration of 2-enoyl-CoA (trans-2-enoyl-CoA) to produce (3R)-3-hydroxyacyl-CoA, and dehydrogenation of (3R)-3-hydroxyacyl-CoA to produce 3-ketoacyl-CoA (3-oxoacyl-CoA), which is further metabolized by SCPx. Can use straight-chain and branched-chain fatty acids, as well

Target Details

as bile acid intermediates as substrates (By similarity) (PubMed:17442273).
{ECO:0000250|UniProtKB:P51659, ECO:0000269|PubMed:17442273}.

Molecular Weight: 79.5 kDa

UniProt: [P51660](#)

Pathways: [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