Datasheet for ABIN7547100

HSD17B4 Protein (AA 1-736) (His tag)

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Overview

Quantity:	1 mg
Target:	HSD17B4
Protein Characteristics:	AA 1-736
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSD17B4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HSD17B4 Protein expressed in mammalian cells.
Sequence:	MGSPLRFDGR VVLVTGAGAG LGRAYALAFA ERGALVVVND LGGDFKGVGK GSLAADKVVE EIRRRGGKAV ANYDSVEEGE KVVKTALDAF GRIDVVVNNA GILRDRSFAR ISDEDWDIIH RVHLRGSFQV TRAAWEHMKK QKYGRIIMTS SASGIYGNFG QANYSAAKLG LLGLANSLAI EGRKSNIHCN TIAPNAGSRM TQTVMPEDLV EALKPEYVAP LVLWLCHESC EENGGLFEVG AGWIGKLRWE RTLGAIVRQK NHPMTPEAVK ANWKKICDFE NASKPQSIQE STGSIIEVLS KIDSEGGVSA NHTSRATSTA TSGFAGAIGQ KLPPFSYAYT ELEAIMYALG VGASIKDPKD LKFIYEGSSD FSCLPTFGVI IGQKSMMGGG LAEIPGLSIN FAKVLHGEQY LELYKPLPRA GKLKCEAVVA DVLDKGSGVV IIMDVYSYSE KELICHNQFS LFLVGSGGFG GKRTSDKVKV AVAIPNRPPD AVLTDTTSLN QAALYRLSGD WNPLHIDPNF ASLAGFDKPI LHGLCTFGFS ARRVLQQFAD NDVSRFKAIK ARFAKPVYPG QTLQTEMWKE GNRIHFQTKV QETGDIVISN AYVDLAPTSG TSAKTPSEGG KLQSTFVFEE IGRRLKDIGP EVVKKVNAVF EWHITKGGNI GAKWTIDLKS GSGKVYQGPA KGAADTTIIL SDEDFMEVVL GKLDPQKAFF SGRLKARGNI

Product Details

	MLSQKLQMIL KDYAKL **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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) (Short chain dehydrogenase/reductase family 8C member 1) [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. 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-

Target Details

	CoA (3-oxoacyl-CoA), which is further metabolized by SCPx. Can use straight-chain and branched-chain fatty acids, as well as bile acid intermediates as substrates. {ECO:0000269|PubMed:10671535, ECO:0000269|PubMed:15060085, ECO:0000269|PubMed:8902629, ECO:0000269|PubMed:9089413}.
Molecular Weight:	79.7 kDa
UniProt:	P51659
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. 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