

Datasheet for ABIN7563352

HSD17B8 Protein (AA 1-259) (His tag)



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Overview

Quantity:	1 mg
Target:	HSD17B8
Protein Characteristics:	AA 1-259
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSD17B8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Hsd17b8 Protein expressed in mammalien cells.
Sequence:	<p>MASQLRLRSA LALVTGAGSG IGRAISVRLA AEGAAVAACD LDGAAAQDTV RLLGSPGSED</p> <p>GAPRGKHA AF QADV SQGPAA RRLLEEVQAC FSRPPSVVVS CAGITRDEFL LHMSEEDWDR</p> <p>VIAVNLKGT F LVTQAAAQAL VSSGGRGSII NISSIIGKVG NIGQTNYASS KAGVIGLTQT</p> <p>AARELGRHGI RCNSVLP GFI ATPMTQKMPE KVKDKVTAMI PLGHMGDPED VADVVAFLAS</p> <p>EDSGYITGAS VEVSGGLFM 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.</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

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:	HSD17B8
Alternative Name:	Hsd17b8 (HSD17B8 Products)
Background:	<p>(3R)-3-hydroxyacyl-CoA dehydrogenase (EC 1.1.1.n12) (17-beta-hydroxysteroid dehydrogenase 8) (17-beta-HSD 8) (3-ketoacyl-[acyl-carrier-protein] reductase alpha subunit) (KAR alpha subunit) (3-oxoacyl-[acyl-carrier-protein] reductase) (Estradiol 17-beta-dehydrogenase 8) (EC 1.1.1.62) (Protein Ke6) (Ke-6) (Testosterone 17-beta-dehydrogenase 8) (EC 1.1.1.239),FUNCTION: Required for the solubility and assembly of the heterotetramer 3-ketoacyl-[acyl carrier protein] (ACP) reductase functional complex (KAR or KAR1) that forms part of the mitochondrial fatty acid synthase (mtFAS). Alpha-subunit of the KAR complex, acts as scaffold protein, required for the stability of carbonyl reductase type-4 (CBR4, beta-subunit of the KAR complex) and for its 3-ketoacyl-ACP reductase activity, thereby participating in mitochondrial fatty acid biosynthesis. Catalyzes the NAD-dependent conversion of (3R)-3-hydroxyacyl-CoA into 3-ketoacyl-CoA (3-oxoacyl-CoA) with no chain length preference, this enzymatic activity is not needed for the KAR function. Prefers (3R)-3-hydroxyacyl-CoA over (3S)-3-hydroxyacyl-CoA and displays enzymatic activity only in the presence of NAD(+)(H).</p> <p>Cooperates with enoyl-CoA hydratase 1 in mitochondria, together they constitute an alternative route to the auxiliary enzyme pathways for the breakdown of Z-PUFA (cis polyunsaturated fatty acid) enoyl-esters (By similarity). NAD-dependent 17-beta-hydroxysteroid dehydrogenase with highest activity towards estradiol. It efficiently catalyzes the oxidation of estradiol (E2),</p>

Target Details

	testosterone, and dihydrotestosterone. Primarily an oxidative enzyme, it can switch to a reductive mode determined in the appropriate physiologic milieu and catalyze the reduction of estrone (E1) to form biologically active estradiol (E2) (PubMed:9712896). {ECO:0000250 UniProtKB:Q92506, ECO:0000269 PubMed:9712896}.
Molecular Weight:	26.6 kDa
UniProt:	P50171
Pathways:	Steroid Hormone Biosynthesis

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