

Datasheet for ABIN7553699

## HSD17B12 Protein (AA 1-312) (His tag)



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### Overview

Quantity:	1 mg
Target:	HSD17B12
Protein Characteristics:	AA 1-312
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSD17B12 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant HSD17B12 Protein expressed in mammalian cells.
Sequence:	<p>MESALPAAGF LYWVGAGTVA YLALRISYSL FTALRVWGVG NEAGVGPGLG EWAVVTGSTD</p> <p>GIGKSYAEEL AKHGMKVLI SRSKDKLDQV SSEIKEKFKV ETRTIAVDFA SEDIYDKIKT</p> <p>GLAGLEIGIL VNNVGMSY EY PEYFLDV PDL DNVIKKMINI NILSVCKMTQ LVLPGMVERS</p> <p>KGAILNISSG SGMLPVPLLT IYSATKTFVD FFSQCLHEEY RSKGVFVQSV LPYFVATKLA</p> <p>KIRKPTLDKP SPETFVKSAI KTVGLQSR TN GYLIHALMGS IISNLPSWIY LKIVMNMNKS</p> <p>TRAHYLK KTK KN <b>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.</b></p>
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:

## Product Details

- 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:	HSD17B12
Alternative Name:	HSD17B12 ( <a href="#">HSD17B12 Products</a> )
Background:	<p>Very-long-chain 3-oxoacyl-CoA reductase (EC 1.1.1.330) (17-beta-hydroxysteroid dehydrogenase 12) (17-beta-HSD 12) (3-ketoacyl-CoA reductase) (KAR) (Estradiol 17-beta-dehydrogenase 12) (EC 1.1.1.62) (Short chain dehydrogenase/reductase family 12C member 1),FUNCTION: Catalyzes the second of the four reactions of the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme has a 3-ketoacyl-CoA reductase activity, reducing 3-ketoacyl-CoA to 3-hydroxyacyl-CoA, within each cycle of fatty acid elongation. Thereby, it may participate in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May also catalyze the transformation of estrone (E1) into estradiol (E2) and play a role in estrogen formation.</p> <p>{ECO:0000269 PubMed:12482854, ECO:0000269 PubMed:16166196}.</p>
Molecular Weight:	34.3 kDa
UniProt:	<a href="#">Q53GQ0</a>

## Target Details

Pathways: [Steroid Hormone Biosynthesis](#)

## 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