

Datasheet for ABIN7547086

HSD17B3 Protein (AA 1-310) (His tag)



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Overview

Quantity:	1 mg
Target:	HSD17B3
Protein Characteristics:	AA 1-310
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSD17B3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HSD17B3 Protein expressed in mammalian cells.
Sequence:	<p>MGDVLEQFFI LTGLLVCLAC LAKCVRFSRC VLLNYWKVLP KSFLRSMGQW AVITGAGDGI</p> <p>GKAYSFELAK RGLNVVLISR TLEKLEAIAT EIERTTGRSV KIIQADFTKD DIYEHIKEKL AGLEIGILVN</p> <p>NVGMLPNLLP SHFLNAPDEI QSLIHCNITS VVKMTQLILK HMESRQKGLI LNISSGIALF</p> <p>PWPLYSMYSA SKAFVCAFSK ALQEEYKAKE VIIQVLTPYA VSTAMTKYLN TNVITKTAE</p> <p>FVKESLNYVT IGGETCGCLA HEILAGFLSL IPAWAFYSGA FQRLLLTHYV AYLKLNTKVR Sequence</p> <p>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>
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:	HSD17B3
Alternative Name:	HSD17B3 (HSD17B3 Products)
Background:	<p>17-beta-hydroxysteroid dehydrogenase type 3 (17-beta-HSD 3) (Estradiol 17-beta-dehydrogenase 2) (EC 1.1.1.62) (Short chain dehydrogenase/reductase family 12C member 2) (Testicular 17-beta-hydroxysteroid dehydrogenase) (Testosterone 17-beta-dehydrogenase 3) (EC 1.1.1.64),FUNCTION: Catalyzes the conversion of 17-oxosteroids to 17beta-hydroxysteroids (PubMed:8075637, PubMed:16216911, PubMed:27927697, PubMed:26545797). Favors the reduction of androstenedione to testosterone (PubMed:16216911, PubMed:27927697, PubMed:26545797). Testosterone is the key androgen driving male development and function (PubMed:8075637). Uses NADPH while the two other EDH17B enzymes use NADH (PubMed:26545797, PubMed:8075637, PubMed:16216911). Androgens such as epiandrosterone, dehydroepiandrosterone, androsterone and androstenedione are accepted as substrates and reduced at C-17 (PubMed:16216911). Can reduce 11-ketoandrostenedione as well as 11beta-hydroxyandrostenedione at C-17 to the respective testosterone forms (PubMed:16216911, PubMed:27927697). {ECO:0000269 PubMed:16216911, ECO:0000269 PubMed:26545797, ECO:0000269 PubMed:27927697,</p>

Target Details

	ECO:0000269 PubMed:8075637}.
Molecular Weight:	34.5 kDa
UniProt:	P37058
Pathways:	Metabolism of Steroid Hormones and Vitamin D, 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