HSD17B3 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HSD17B3, Recombinant Protein
Full Product Name	Recombinant Human HSD17B3
Product Gene Name	HSD17B3 recombinant protein
Product Synonym Names	17 beta HSD 3; EDH17B3; HSD17B3; SDR12C2
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 95% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	34,516 Da
Sequence Positions	67-178
OMIM	264300
3D Structure	ModBase 3D Structure for P37058
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for HSD17B3 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for HSD17B3 recombinant protein	MBS7614180 is a recombinant protein targeting HSD17B3. Also known as Recombinant Human HSD17B3. Host: E Coli.
Other Notes	Small volumes of HSD17B3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSD17B3. It may not necessarily be applicable to this product.

NCBI GI #	4557649
NCBI GeneID	3293
NCBI Accession #	NP_000188.1
UniProt Primary Accession #	P37058
UniProt Related Accession #	P37058
GenBank Nucleotide #	NM_000197.1

NCBI Official Full Name	testosterone 17-beta-dehydrogenase 3
NCBI Official Synonym Full Names	hydroxysteroid (17-beta) dehydrogenase 3
NCBI Official Symbol	HSD17B3
NCBI Official Synonym Symbols	EDH17B3; SDR12C2
UniProt Protein Name	Testosterone 17-beta-dehydrogenase 3
UniProt Synonym Protein Names	17-beta-hydroxysteroid dehydrogenase type 3; 17-beta-HSD 3; Testicular 17-beta-hydroxysteroid dehydrogenase
Protein Family	Testosterone 17-beta-dehydrogenase
UniProt Gene Name	HSD17B3
UniProt Synonym Gene Names	EDH17B3; 17-beta-HSD 3
UniProt Entry Name	DHB3_HUMAN
NCBI Protein Information	testosterone 17-beta-dehydrogenase 3; 17-beta-HSD3; 17-beta-HSD 3; 17-beta-hydroxysteroid dehydrogenase type 3; testicular 17-beta-hydroxysteroid dehydrogenase; short chain dehydrogenase/reductase family 12C, member 2
NCBI Summary for HSD17B3	This isoform of 17 beta-hydroxysteroid dehydrogenase is expressed predominantly in the testis and catalyzes the conversion of androstenedione to testosterone. It preferentially uses NADP as cofactor. Deficiency can result in male pseudohermaphroditism with gynecomastia. [provided by RefSeq, Jul 2008]
UniProt Comments for HSD17B3	HSD17B3: Favors the reduction of androstenedione to testosterone. Uses NADPH while the two other EDH17B enzymes use NADH. Defects in HSD17B3 are the cause of male pseudohermaphrodism with gynecomastia (MPH). These individuals have unambiguous female external genitalia at birth, but fail to menstruate at the time of expected puberty and instead virilize as evidenced by growth of the phallus. Breast development may or may not take place. Belongs to the short-chain dehydrogenases/reductases (SDR) family. 17-beta-HSD 3 subfamily. Protein type: EC 1.1.1.64; Oxidoreductase; Lipid Metabolism - androgen and estrogen Chromosomal Location of Human Ortholog: 9q22 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle Molecular Function: testosterone 17-beta-dehydrogenase (NADP+) activity Biological Process: steroid metabolic process; male genitalia development; androgen biosynthetic process Disease: 17-beta Hydroxysteroid Dehydrogenase Iii Deficiency
Research Articles on HSD17B3	**1.** These results suggest that the HSD17B3 G289S polymorphism may be a potential risk modifier for hypospadias.
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