

Recombinant Human HSD17B12 Protein (Met1-Asn312), His tagged

Cat. No. HSD17B12-3534H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSD17b12 (Met1-Asn312) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Asn312
Description	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.
Molecular Mass	33.59 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.

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Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	HSD17B12 hydroxysteroid (17-beta) dehydrogenase 12 [Homo sapiens (human)]
Official Symbol	HSD17B12
Synonyms	HSD17B12; hydroxysteroid (17-beta) dehydrogenase 12; estradiol 17-beta-dehydrogenase 12; 3 ketoacyl CoA reductase; KAR; SDR12C1; short chain dehydrogenase/reductase family 12C; member 1; 17-beta-HSD 12; 17beta-HSD type 12; 3-ketoacyl-CoA reductase; steroid dehydrogenase homolog; 17-beta-hydroxysteroid dehydrogenase 12; short chain dehydrogenase/reductase family 12C, member 1;
Gene ID	51144
mRNA Refseq	NM_016142
Protein Refseq	NP_057226
MIM	609574

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UniProt ID

Q53GQ0

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