Recombinant Human HSD17B4, GST-tagged

Cat. No. HSD17B4-13960H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSD17B4 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	436-736a.a.
Description	The protein encoded by this gene is a bifunctional enzyme that is involved in the peroxisomal beta-oxidation pathway for fatty acids. It also acts as a catalyst for the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. Defects in this gene that affect the peroxisomal fatty acid beta-oxidation activity are a cause of D-bifunctional protein deficiency (DBPD). An apparent pseudogene of this gene is present on chromosome 8.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	HSD17B4 hydroxysteroid (17-beta) dehydrogenase 4 [Homo sapiens]

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Official Symbol	HSD17B4
Synonyms	HSD17B4; hydroxysteroid (17-beta) dehydrogenase 4; peroxisomal multifunctional enzyme type 2; 3 alpha; 7 alpha; 12 alpha trihydroxy 5 beta cholest 24 enoyl CoA hydratase; 17 beta HSD IV; 17 beta hydroxysteroid dehydrogenase 4; 17beta estradiol dehydrogenase type IV; beta hydroxyacyl dehydrogenase; beta keto reductase; D 3 hydroxyacyl CoA dehydratase; D bifunctional protein; peroxisomal; DBP; MFE 2; peroxisomal multifunctional protein 2; SDR8C1; short chain dehydrogenase/reductase family 8C; member 1; 17-beta-HSD 4; 17-beta-HSD IV; beta-keto-reductase; multifunctional protein 2; beta-hydroxyacyl dehydrogenase; D-3-hydroxyacyl-CoA dehydratase; D-bifunctional protein, peroxisomal; 17-beta-hydroxysteroid dehydrogenase 4; 17beta-estradiol dehydrogenase type IV; short chain dehydrogenase/reductase family 8C, member 1; 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase; MFE-2; MPF-2;
Gene ID	3295
mRNA Refseq	NM_000414
Protein Refseq	NP_000405
MIM	601860
UniProt ID	P51659
Chromosome Location	5q2
Pathway	Beta-oxidation of pristanoyl-CoA, organism-specific biosystem; Beta-oxidation of very long chain fatty acids, organism-specific biosystem; Bile acid and bile salt metabolism, organism-specific biosystem; Bile acid biosynthesis, cholesterol =>

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	cholate, organism-specific biosystem; Bile acid biosynthesis, cholesterol => cholate, conserved biosystem;
Function	3-hydroxyacyl-CoA dehydrogenase activity; 3alpha,7alpha,12alpha-trihydroxy-5beta-cholest-24-enoyl-CoA hydratase activity; estradiol 17-beta-dehydrogenase activity; isomerase activity; long-chain-enoyl-CoA hydratase activity; lyase activity; nucleotide bin

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