

Recombinant Human HSD17B4 protein, GST-tagged

Cat. No. HSD17B4-111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSD17B4(1 a.a. - 736 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1 a.a. - 736 a.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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	107.36 kDa
AA Sequence	MGSPLRFDGRVVLVTGAGAGLGRAYALFAERGA LVVNDLGGDFKGVGKGS LAA DKVVEEIRRRGGKAVANYDSVEEGEKVVKTALDAFGRIDVVNNAGILRDRSFARIS DEDWDIIHRVHLRGSFQVTRA AWEHMKKQKYGRIIMTSSASGIYGNFGQANYSAAK LGLLGLANSLAIEGRKSNIHCNTIAPNAGSRMTQTVTPEDLVEALKPEYVAPLV LWLC HESCEENGGLFEVGAGWIGKLRWERTLGAIVRQKNHPMTPEAVKANWKKICDFEN

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ASKPQSIQESTGSIIEVLSKIDSEGGVSANHTSRATSTATSGFAGAIGQKLPPFSYAYT
 ELEAIMYALGVGASIKDPKDLKFIYEGSSDFSCLPFGVIIGQKSMGGGLAEIPGLSI
 NFAKVLHGEQYLELYKPLPRAGKCLKCEAVVADVLDKSGGVVIIMDVYSYSEKELICHN
 QFSLFLVGSGGFGGKRTSDKVKVAVAIPNRPPDAVLDTTSLNQAALYRLSGDRNPL
 HIDPNFASLAGFDKPIHGLCTFGFSARRVLQQFADNDVSRFKAVKARFAKPVYPGQ
 TLQTEMWKEGNRIHFQTKVQETGDIVISNAYVDLAPTSAGTSAKTPSEGGKLQSTFVF
 EEIGRRLKDIGPEVVKKVNAVFEWHITKGGNIGAKWTIDLKSGSGKVYQGPAGKAAD
 TTILSDEDFMEVVLGKLDLPQKAFFSGRLKARGNIMLSQKLQMLKDYAKL

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

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

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-

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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 => 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 binding; oxidoreductase activity; sterol binding; sterol transporter activity;

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