

Recombinant Human HSD17B4, His-tagged

Cat. No. HSD17B4-109H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Peroxisomal Multifunctional Enzyme Type 2/HSD17B4 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Gly2-Leu736) of Human HSD17B4 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	2-736 a.a.
Description	Peroxisomal Multifunctional Enzyme Type 2 (MFE-2) belongs to the short-chain dehydrogenase/reductase (SDR) family. MFE-2 localizes to the peroxisome and contains one MaoC-like domain and one SCP2 domain. MFE-2 can be cleaved into (3R)-hydroxyacyl-CoA dehydrogenase and Enoyol-CoA hydratase 2 chains. MFE-2 acts as a bifunctional enzyme acting on the peroxisomal beta-oxidation pathway for fatty acids. It catalyzes the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. Defects in MFE-2 are a cause of D-bifunctional protein deficiency, which is a disorder of peroxisomal fatty acid β -oxidation.
AA Sequence	MGSP LRF DGRV VLV TGAGAG LGRAYALAF AER GALVVVND LGGDFKGVGKGS LAADKVV E EIRRR G GKAVANYDSVEEGEKVVK TALDAFGRIDVVVNNAGILRDRSFARISDEDWDIIHRVHLRGSFQV TRAAWEHMKKQKYGRIIMTSSASGIYGNFGQANYSAAK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LGLLGLANSLAIEGRKSNIHCNTIAPN AGSRMTQTVMPEDLVEALKPEYVAPLVWL
CHESCEENGGLFEVGAGWIGKLRWERTLGAIVRQK NHPMTPEAVKANWKKICDFE
NASKPQSIQESTGSIIEVLSKIDSEGGV SANHTSRATSTATSGFA GAIGQKLPPFSYA
YTELEAIMYALGV GASIKDPKDLFIYEGSSDF SCLPTFGVIIGQKSMMGGG LAEIPG
LSINFAKVLHGEQYLELYKPLPRAGKLC EAVVADVLDKSGSVIIMDVYSYSEKELIC
HNQFSLFLVSGGGFGGKRTSDKV KVAIPAIPNRPPDAVLTDTTSLNQAALYRLSGDW
NPLHIDPNF ASLAGFDKPI LHGLCTFGFSARRVLQQFADNDVSRFKA IAKARFAKPVY
PGQTLQTEMWKEGNRIH FQTKVQETGDIVISNAYVDLAPTSGTSAKTPSEGGKLQS
TFVFEEIGRRLKDIGPEVVKKVNAVF EWHITKGGNIGAKWTIDLKSGSGKVYQGP
AKGAADTTIILSDEDFMEVVLGKLD PQKAFFSGRLK ARGNIMLSQKLQMILKDYAKLVD
HHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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;