Recombinant Human Hydroxysteroid Dehydrogenase 10, His-tagged

Cat. No. HSD17B10-1707H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HSD17B10 protein was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	HSD17B10 is a member of the short-chain dehydrogenase/reductase superfamily. This mitochondrial protein catalyzes the oxidation of a wide variety of fatty acids, alcohols, and steroids. HSD17B10 plays an important role in processing steroid hormones and fats, and also helps break down the protein building block (amino acid) isoleucine. This enzyme is also necessary for several chemical reactions involving female sex hormones (estrogens) and male sex hormones (androgens). It is essential for maintaining appropriate levels of male and female sex hormones. This protein may contribute to the neuronal dysfunction associated with Alzheimer disease.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 10% glycerol, 1mM DTT, and 100mM NaCl.
Purity	> 95% by SDS - PAGE
Sequence	12-261 amino acids: MGSSHHHHHH SSGLVPRGSH MVAVITGGAS GLGLATAERL

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	VGQGASAVLL DLPNSGGEAQ AKKLGNNCVF APADVTSEKD VQTALALAKG KFGRVDVAVN CAGIAVASKT YNLKKGQTHT LEDFQRVLDV NLMGTFNVIR LVAGEMGQNE PDQGGQRGVI INTASVAAFE GQVGQAAYSA SKGGIVGMTL PIARDLAPIG IRVMTIAPGL FGTP
Molecular Mass	28.1 kDa (271aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	HSD17B10 hydroxysteroid (17-beta) dehydrogenase 10 [Homo sapiens]
Official Symbol	HSD17B10
Synonyms	HSD17B10; hydroxysteroid (17-beta) dehydrogenase 10; ABAD; CAMR; ERAB; HCD2; MHBD; HADH2; MRPP2; MRX17; MRX31; SCHAD; MRXS10; SDR5C1; 17b-HSD10; DUPXp11.22; AB-binding alcohol dehydrogenase; amyloid-beta binding polypeptide; mental retardation, X-linked, syndromic 10; mental retardation, X-linked, syndromic 11; 3-hydroxy-2-methylbutyryl-CoA dehydrogenase; type 10 17beta-hydroxysteroid dehydrogenase; 17-beta-hydroxysteroid dehydrogenase type 10; short chain type dehydrogenase/reductase XH98G2; amyloid-beta peptide binding alcohol dehydrogenase; short chain L-3-hydroxyacyl-CoA dehydrogenase type 2; short chain dehydrogenase/reductase family 5C, member 1; EC 1.1.1.178; EC 1.1.1.35; hydroxyacyl-Coenzyme A dehydrogenase, type II, hydroxyacyl-Coenzyme A dehydrogenase, type II; type 10 17b-HSD; short chain dehydrogenase/reductase family 5C, member 1; 3-hydroxyacyl-CoA dehydrogenase type-2; 3-hydroxyacyl-CoA

	dehydrogenase type II; Type II HADH; 17-beta-hydroxysteroid dehydrogenase 10; Mitochondrial ribonuclease P protein 2; Mitochondrial RNase P protein 2; Endoplasmic reticulum-associated amyloid beta-peptide-binding protein; XH98G2; OTTHUMP00000023348; OTTHUMP00000023349
Gene ID	3028
mRNA Refseq	NM_001037811
Protein Refseq	NP_001032900
MIM	300256
UniProt ID	Q99714
Chromosome Location	Xp11.2
Pathway	Alzheimer"s disease; Metabolic pathways; Valine, leucine and isoleucine degradation
Function	3-hydroxy-2-methylbutyryl-CoA dehydrogenase activity; 3-hydroxyacyl-CoA dehydrogenase activity; 7-alpha-hydroxysteroid dehydrogenase activity; NAD or NADH binding; acetoacetyl-CoA reductase activity; beta-amyloid binding; estradiol 17-beta-dehydrogenase activity; identical protein binding; oxidoreductase activity; steroid binding

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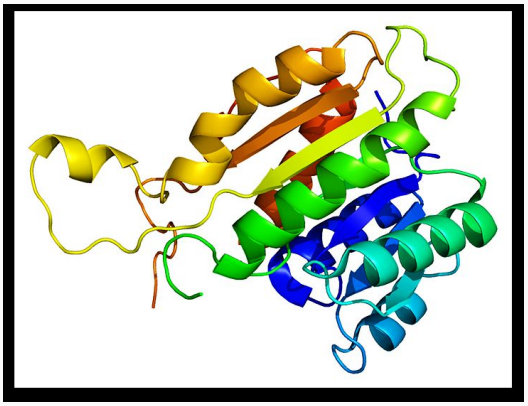
PDB rendering basedon 1so8.	

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