

Recombinant Human HSD17B10, GST-tagged

Cat. No. HSD17B10-7002H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human HSD17B10 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	HSD17B10 gene encodes the protein 17-beta-hydroxysteroid dehydrogenase 10 that is a member of the short-chain dehydrogenase/reductase superfamily SCHAD. HSD17B10 gene product is a mitochondrial protein that is involved in lipid metabolism, fatty acid oxidation and steroid hormone metabolism. HSD17B10 protein has been implicated in the development of Alzheimers disease and mutations in the gene are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD). Furthermore, HSD17B10 may act as a direct molecular link between beta-amyloid and mitochondrial toxicity.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~51 kDa
Purity	>95%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 µg/µl
GENE INFORMATION	
Gene Name	HSD17B10 hydroxysteroid (17-beta) dehydrogenase 10 [Homo sapiens]
Official Symbol	HSD17B10
Synonyms	HSD17B10; hydroxysteroid (17-beta) dehydrogenase 10; HADH2, hydroxyacyl Coenzyme A dehydrogenase, type II, hydroxyacyl Coenzyme A dehydrogenase, type II , mental retardation, X linked, syndromic 10 , MRXS10; 3-hydroxyacyl-CoA dehydrogenase type-2; 17b HSD10; AB binding alcohol dehydrogenase; ABAD; CAMR; ERAB; MHBD; MRPP2; SDR5C1; short chain dehydrogenase/reductase family 5C; member 1; type 10 17b HSD; type 10 17beta hydroxysteroid dehydrogenase; AB-binding alcohol dehydrogenase; mitochondrial ribonuclease P protein 2; 3-hydroxy-2-methylbutyryl-CoA dehydrogenase; 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; endoplasmic reticulum-associated amyloid beta-peptide-binding protein; HCD2; HADH2; MRX17; MRX31; SCHAD; MRXS10; 17b-HSD10; DUPXp11.22;
Gene ID	3028
mRNA Refseq	NM_001037811

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Protein Refseq	NP_001032900
MIM	300256
UniProt ID	Q99714
Chromosome Location	Xp11.2
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Branched-chain amino acid catabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem;
Function	3-hydroxy-2-methylbutyryl-CoA dehydrogenase activity; 3-hydroxyacyl-CoA dehydrogenase activity; NAD binding; acetoacetyl-CoA reductase activity; beta-amyloid binding; cholate 7-alpha-dehydrogenase activity; estradiol 17-beta-dehydrogenase activity; estrogen receptor binding; identical protein binding; nucleotide binding; oxidoreductase activity; protein binding; steroid binding;