

Recombinant Human HSD17B10

Cat. No. HSD17B10-28686TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ERAB expressed in <i>Saccharomyces cerevisiae</i> , 261 amino acids, MWt 26.9 KDa. Protein is tagged with a 26 kDa proprietary tag.
Species	Human
Description	This gene encodes 3-hydroxyacyl-CoA dehydrogenase type II, a member of the short-chain dehydrogenase/reductase superfamily. The gene product is a mitochondrial protein that catalyzes the oxidation of a wide variety of fatty acids, alcohols, and steroids. The 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). Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined.
Tissue specificity	Expressed in normal tissues but is overexpressed in neurons affected in AD.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

 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

Sequences of amino acids	MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLL DLPNSGGEAQAKKLG NNCVFAPADVTSEKDVQTALALA KGKFGRVDVAVNCAGIAVASKTYNLKKGQHTL EDFQRVLDVNLMGTFNVIRLVAGEMGQNEPDQGGQRGVIINTASV AAFEGQVGQA AYSASKGGIVGMTLPIARDLAPIGIRVM TIAPGLFGTPLLTSLPEKVCNFLASQVPFPS RLGDPAEYAHLVQAIENPFLNGEVIRLDGAIRMQP
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.
Full Length	Full L.
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 H
Gene ID	3028
mRNA Refseq	NM_001037811
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;
Function	3-hydroxy-2-methylbutyryl-CoA dehydrogenase activity; 3-hydroxyacyl-CoA dehydrogenase activity; NAD binding; acetoacetyl-CoA reductase activity; beta-amyloid binding;

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