

HSD17B10 recombinant protein

HSD17B10 recombinant protein

CATALOG # AAA72927	HOST Sf9 insect cells	APPLICATIONS Western Blot
------------------------------	---------------------------------	-------------------------------------

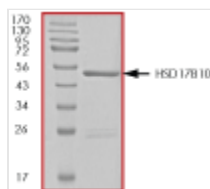
PRODUCT SYNONYMS

HSD17B10; HSD17B10 recombinant protein; Hydroxysteroid (17-beta) Dehydrogenase 10; ABAD; ERAB; HCD2; MHBD; HADH2; SCHAD; 17b-HSD10; CAMR; MRPP2; MRX17; MRX31; MRXS10; SDR5C1; DUPXp11.22

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>95%
Form/Format	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
Concentration	0.2ug/ul (varies by lot)
Sequence Length	963
Applicable Applications for HSD17B10 recombinant protein	WB (Western Blot)
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant full-length human HSD17B10 was expressed using baculovirus in Sf9 cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Storage: Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Expiration: 1 year at -70 degree C from date of shipment Shipping: Ships with dry ice.

IMAGES



SDS-PAGE

The purity of HSD17B10 was determined to be >95% by densitometry. Approx. MW 51kDa.

ADDITIONAL INFORMATION

Related Product Information for HSD17B10 recombinant protein	Recombinant full-length human HSD17B10 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_004493. Scientific Background: HSD17B10 gene encodes the protein 17-beta-hydroxysteroid dehydrogenase 10 that is a member of the short-chain dehydrogenase/reductase superfamily SCHAD (1). 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 Alzheimer's 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 (2).
Product Categories/Family for HSD17B10 recombinant protein	Cellular Proteins; Signaling Proteins - Cellular Proteins
References	1. Yang, S.-Y. et al: Multiple functions of type 10 17-beta-hydroxysteroid dehydrogenase. Trends Endocr. Metab. 16: 167-175, 2005. 2. Lustbader, J. W. et al: ABAD directly links A-beta to mitochondrial toxicity in Alzheimer's disease. Science 304: 448-452, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	91823611
NCBI GeneID	3028
NCBI Accession #	NM_004493
NCBI GenBank Nucleotide #	NM_004493
UniProt Accession #	Q99714; Q5H927; Q6IBS9; Q8TCV9; Q96HD5
Molecular Weight	~51 kDa
NCBI Official Full Name	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 10 (HSD17B10), transcript variant 1, mRNA
NCBI Official Synonym Full Names	hydroxysteroid (17-beta) dehydrogenase 10
NCBI Official Symbol	HSD17B10
NCBI Official Synonym Symbols	ABAD; CAMR; ERAB; HCD2; MHBD; HADH2; MRPP2; MRX17; MRX31; SCHAD; MRXS10; SDR5C1; 17b-HSD10; DUPXp11.22
NCBI Protein Information	3-hydroxyacyl-CoA dehydrogenase type-2; mitochondrial RNase P subunit 2; 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
UniProt Protein Name	3-hydroxyacyl-CoA dehydrogenase type-2
UniProt Gene Name	HSD17B10
UniProt Synonym Gene Names	ERAB; HADH2; MRPP2; SCHAD; XH98G2; 17-beta-HSD 10; Mitochondrial RNase P protein 2
UniProt Entry Name	HCD2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.