

Recombinant Full Length Human HSD17B10 Protein, C-Flag-tagged

Cat. No. HSD17B10-341HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HSD17B10 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 and steroids, and is a subunit of mitochondrial ribonuclease P, which is involved in tRNA maturation. The protein has been implicated in the development of Alzheimer disease, and mutations in the gene are the cause of 17beta-hydroxysteroid dehydrogenase type 10 (HSD10) deficiency. Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	25.8 kDa
AA Sequence	MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGGEAQAKKLG NCVFAPADVTSEKD VQTALALAKGKFGFRVDVAVNCAGIAVASKTYNLKKGQTHLE DFQRVLDVNLMGTFNVIRLVAGEMGQNE PDQGGQRGVIINTASVAAFEGQVGQAA

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YSASKGGIVGMTLPIARDLAPIGIRVMTIAPGLFGTPLLTSLP
 EKVCNFLASQVPFPSRLGDPAEYAHLVQAIENPFLNGEVIRLDGAIRMQPTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alzheimer's disease, Metabolic pathways, Valine, leucine and isoleucine degradation
Full Length	Full L.

GENE INFORMATION

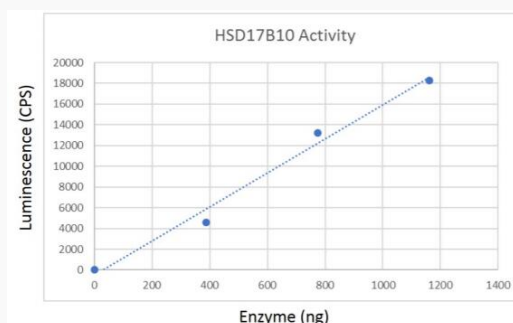
Gene Name	HSD17B10 hydroxysteroid 17-beta dehydrogenase 10 [Homo sapiens (human)]
Official Symbol	HSD17B10
Synonyms	ABAD; CAMR; ERAB; HCD2; MHBD; HADH2; MRPP2; MRX17; MRX31; SCHAD; MRXS10; SDR5C1; HSD10MD; 17b-HSD10; DUPXp11.22

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Gene ID	3028
mRNA Refseq	NM_004493.3
Protein Refseq	NP_004484.1
MIM	300256
UniProt ID	Q99714

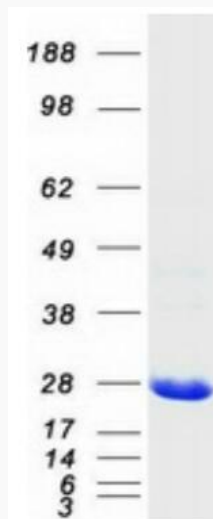


HSD17B10 enzymatic activity with 75μM βestradiol as a substrate, measured by NADH production (indicated by luminescence).

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Coomassie blue staining of purified HSD17B10 protein.

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