

Product datasheet for TP301734M

ERAB (HSD17B10) (NM_004493) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human hydroxysteroid (17-beta) dehydrogenase 10 (HSD17B10), nuclear gene encoding mitochondrial protein, transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201734 protein sequence Red =Cloning site Green =Tags(s)
	<p>MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKD VQTALALAKGKFRVDVAVNCAGIAVASKTYNLKKGQHTHTLEDFQRLVDVNLMGTFNVIRLVAGEMGQNE PDQGGQRGVIINTASVAAFEGQVGQAAYSASKGGIVGMTLPIARDLAPIGIRVMTIAPGLFGTPLLSLP EKVCNFLASQVPFPSRLGDPAEYAHLVQAIENPFLNGEVIRLDGAIRMQP</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	25.8 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_004484</u>
Locus ID:	3028



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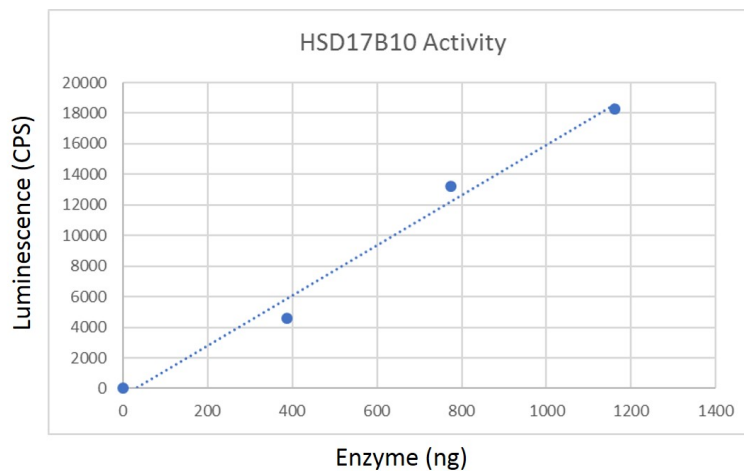
UniProt ID: [Q99714](#), [A0A0S2Z410](#)
RefSeq Size: 963
Cytogenetics: Xp11.22
RefSeq ORF: 783
Synonyms: 17b-HSD10; ABAD; CAMR; DUPXp11.22; ERAB; HADH2; HCD2; HSD10MD; MHBD; MRPP2; MRX17; MRX31; MRXS10; SCHAD; SDR5C1

Summary: 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. [provided by RefSeq, Aug 2014]

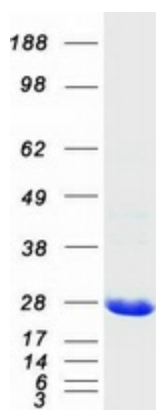
Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Metabolic pathways, Valine, leucine and isoleucine degradation

Product images:



HSD17B10 enzymatic activity with 75 μ M β -estradiol as a substrate, measured by NADH production (indicated by luminescence).



Coomassie blue staining of purified HSD17B10 protein (Cat# [TP301734]). The protein was produced from HEK293T cells transfected with HSD17B10 cDNA clone (Cat# [RC201734]) using MegaTran 2.0 (Cat# [TT210002]).