

# Recombinant Human HSD17B10 293 Cell Lysate

**Cat. No.** HSD17B10-5376HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Human

**Source** HEK293

### Description

Antigen standard for hydroxysteroid (17-beta) dehydrogenase 10 (HSD17B10), nuclear gene encoding mitochondrial protein, transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.

### Components

This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).

**Size** 0.1 mg

### Storage Instruction

Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**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](#)

**Protein Refseq**

[NP\\_001032900](#)

**MIM**

[300256](#)

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | Q99714                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | Xp11.2                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | 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;            |
| <b>Function</b>            | 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; |