Recombinant Human HSD17B4 293 Cell Lysate

Cat. No. HSD17B4-5373HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4) 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.

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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	HSD17B4 hydroxysteroid (17-beta) dehydrogenase 4 [Homo sapiens]
Official Symbol	HSD17B4
Synonyms	HSD17B4; hydroxysteroid (17-beta) dehydrogenase 4; peroxisomal multifunctional enzyme type 2; 3 alpha; 7 alpha; 12 alpha trihydroxy 5 beta cholest 24 enoyl CoA hydratase; 17 beta HSD IV; 17 beta hydroxysteroid dehydrogenase 4; 17beta estradiol dehydrogenase type IV; beta hydroxyacyl dehydrogenase; beta keto reductase; D 3 hydroxyacyl CoA dehydratase; D bifunctional protein; peroxisomal; DBP; MFE 2; peroxisomal multifunctional protein 2; SDR8C1; short chain dehydrogenase/reductase family 8C; member 1; 17-beta-HSD 4; 17-beta-HSD IV; beta-keto-reductase; multifunctional protein 2; beta-hydroxyacyl dehydrogenase; D-3-hydroxyacyl-CoA dehydratase; D-bifunctional protein, peroxisomal; 17-beta-hydroxysteroid dehydrogenase 4; 17beta-estradiol dehydrogenase type IV; short chain dehydrogenase/reductase family 8C, member 1; 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase; MFE-2; MPF-2;
Gene ID	3295
mRNA Refseq	NM_000414
Protein Refseq	NP_000405
MIM	601860

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UniProt ID	P51659
Chromosome Location	5q2
Pathway	Beta-oxidation of pristanoyl-CoA, organism-specific biosystem; Beta-oxidation of very long chain fatty acids, organism-specific biosystem; Bile acid and bile salt metabolism, organism-specific biosystem; Bile acid biosynthesis, cholesterol =>cholate, organism-specific biosystem; Bile acid biosynthesis, cholesterol => cholate, conserved biosystem;
Function	3-hydroxyacyl-CoA dehydrogenase activity; 3alpha,7alpha,12alpha-trihydroxy-5beta-cholest-24-enoyl-CoA hydratase activity; estradiol 17-beta-dehydrogenase activity; isomerase activity; long-chain-enoyl-CoA hydratase activity; lyase activity; nucleotide binding; oxidoreductase activity; sterol binding; sterol transporter activity;

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