

Recombinant Human HSD3B1 293 Cell Lysate

Cat. No. HSD3B1-5370HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1 (HSD3B1) 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

[HSD3B1 hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1 \[Homo sapiens \]](#)

Official Symbol

HSD3B1

Synonyms

HSD3B1; hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1; HSD3B, HSDB3; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1; SDR11E1; short chain dehydrogenase/reductase family 11E; member 1; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1; 3-beta-HSD I; progesterone reductase; steroid Delta-isomerase; trophoblast antigen FDO161G; delta-5-3-ketosteroid isomerase; 3-beta-hydroxy-5-ene steroid dehydrogenase; 3-beta-hydroxy-Delta(5)-steroid dehydrogenase; short chain dehydrogenase/reductase family 11E, member 1; 4-isomerase type I; hydroxy-delta-5-steroid dehydrogenase, 3 beta-and steroid delta-isomerase 1; I; HSD3B; HSDB3; HSDB3A; 3BETAHSD;

Gene ID

[3283](#)

mRNA Refseq

[NM_000862](#)

Protein Refseq

[NP_000853](#)

MIM

[109715](#)

UniProt ID

[P14060](#)

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Chromosome Location	1p12
Pathway	Androgen biosynthesis, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone =>androstenedione => estrone, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone => androstenedione => estrone, conserved biosystem;
Function	3-beta-hydroxy-delta5-steroid dehydrogenase activity; isomerase activity; nucleotide binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor; steroid delta-isomerase activity;

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