

Recombinant Human CYP17A1 293 Cell Lysate

Cat. No. CYP17A1-7128HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 17, subfamily A, polypeptide 1 (CYP17A1) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	CYP17A1 cytochrome P450, family 17, subfamily A, polypeptide 1 [Homo sapiens]
Official Symbol	CYP17A1
Synonyms	CYP17A1; cytochrome P450, family 17, subfamily A, polypeptide 1; CYP17, cytochrome P450, subfamily XVII (steroid 17 alpha hydroxylase), adrenal hyperplasia; steroid 17-alpha-hydroxylase/17,20 lyase; CPT7; P450C17; S17AH; Steroid 17 alpha monooxygenase; CYPXVII; cytochrome P450c17; cytochrome P450-C17; cytochrome P450 17A1; cytochrome p450 XVIIA1; steroid 17-alpha-monooxygenase; cytochrome P450, subfamily XVII (steroid 17-alpha-hydroxylase), adrenal hyperplasia; CYP17;
Gene ID	1586
mRNA Refseq	NM_000102
Protein Refseq	NP_000093
MIM	609300
UniProt ID	P05093
Chromosome Location	10q24.3
Pathway	Androgen biosynthesis, organism-specific biosystem; Biological oxidations, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone

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=>androstenedione => estrone, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone => androstenedione =>

Function

electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxygen binding; steroid 17-alpha-monooxygenase activity;

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