

Recombinant Human CYP46A1 293 Cell Lysate

Cat. No. CYP46A1-7105HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 46, subfamily A, polypeptide 1 (CYP46A1) 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 [CYP46A1 cytochrome P450, family 46, subfamily A, polypeptide 1 \[Homo sapiens \]](#)

Official Symbol CYP46A1

Synonyms

CYP46A1; cytochrome P450, family 46, subfamily A, polypeptide 1; CYP46, cytochrome P450, subfamily 46 (cholesterol 24 hydroxylase); cholesterol 24-hydroxylase; CH24H; cytochrome P450 46A1; cytochrome P450, subfamily 46 (cholesterol 24-hydroxylase); CP46; CYP46;

Gene ID [10858](#)

mRNA Refseq [NM_006668](#)

Protein Refseq [NP_006659](#)

MIM [604087](#)

UniProt ID [Q9Y6A2](#)

Chromosome Location 14q32.1

Pathway

Bile acid and bile salt metabolism, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Endogenous sterols, organism-specific biosystem;

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Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Phase 1 - Functionalization of compounds, organism-specific biosystem;

Function

cholesterol 24-hydroxylase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; steroid hydroxylase activity;

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