

Recombinant Human CYP7A1 293 Cell Lysate

Cat. No. CYP7A1-7099HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 7, subfamily A, polypeptide 1 (CYP7A1) 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

CYP7A1 cytochrome P450, family 7, subfamily A, polypeptide 1 [Homo sapiens]

Official Symbol

CYP7A1

Synonyms

CYP7A1; cytochrome P450, family 7, subfamily A, polypeptide 1; CYP7, cytochrome P450, subfamily VIIA (cholesterol 7 alpha monooxygenase), polypeptide 1; cholesterol 7-alpha-monooxygenase; cholesterol 7 alpha monooxygenase; cytochrome P450 7A1; cholesterol 7-alpha-hydroxylase; cytochrome P450, subfamily VIIA polypeptide 1; CP7A; CYP7; CYPVII; MGC126826; MGC138389;

Gene ID

1581

mRNA Refseq

NM_000780

Protein Refseq

NP_000771

MIM

118455

UniProt ID

P22680

Chromosome Location

8q11-q12

Pathway

Bile acid and bile salt metabolism, organism-specific biosystem; Bile acid biosynthesis, cholesterol =>cholate, organism-specific biosystem; Bile acid

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biosynthesis, cholesterol => cholate, conserved biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem;

Function

cholesterol 7-alpha-monooxygenase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen;

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