

## Recombinant Human CYP7B1 293 Cell Lysate

**Cat. No.** CYP7B1-7098HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for cytochrome P450, family 7, subfamily B, polypeptide 1 (CYP7B1) 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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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** CYP7B1 cytochrome P450, family 7, subfamily B, polypeptide 1 [ Homo sapiens ]

**Official Symbol** CYP7B1

**Synonyms** CYP7B1; cytochrome P450, family 7, subfamily B, polypeptide 1; cytochrome P450, subfamily VIIB (oxysterol 7 alpha hydroxylase), polypeptide 1 , spastic paraplegia 5A (autosomal recessive) , SPG5A; 25-hydroxycholesterol 7-alpha-hydroxylase; cytochrome P450 7B1; oxysterol 7alpha-hydroxylase; oxysterol 7-alpha-hydroxylase; cytochrome P450, subfamily VIIB (oxysterol 7 alpha-hydroxylase), polypeptide 1; CP7B; CBAS3; SPG5A;

**Gene ID** 9420

**mRNA Refseq** NM\_004820

**Protein Refseq** NP\_004811

**MIM** 603711

**UniProt ID** O75881

**Chromosome Location** 8q21.3

**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**

25-hydroxycholesterol 7alpha-hydroxylase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxysterol 7-alpha-hydroxylase activity;

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