

## Recombinant Human CYP2C9 293 Cell Lysate

Cat. No. CYP2C9-7113HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for cytochrome P450, family 2, subfamily C, polypeptide 9 (CYP2C9) 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

<b>Gene Name</b>	CYP2C9 cytochrome P450, family 2, subfamily C, polypeptide 9 [ Homo sapiens ]
<b>Official Symbol</b>	CYP2C9
<b>Synonyms</b>	CYP2C9; cytochrome P450, family 2, subfamily C, polypeptide 9; CYP2C10, cytochrome P450, subfamily IIC (mephenytoin 4 hydroxylase), polypeptide 9; cytochrome P450 2C9; P450IIC9; cytochrome P-450MP; cytochrome P450 PB-1; microsomal monooxygenase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P-450 S-mephenytoin 4-hydroxylase; CPC9; CYP2C; CYP2C10; CYP1IC9; MGC88320; MGC149605;
<b>Gene ID</b>	1559
<b>mRNA Refseq</b>	NM_000771
<b>Protein Refseq</b>	NP_000762
<b>MIM</b>	601130
<b>UniProt ID</b>	P11712
<b>Chromosome Location</b>	10q24.1
<b>Pathway</b>	Arachidonate Epoxygenase / Epoxide Hydrolase, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific

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biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem;

**Function**

(R)-limonene 6-monooxygenase activity; (S)-limonene 6-monooxygenase activity; (S)-limonene 7-monooxygenase activity; caffeine oxidase activity; drug binding; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; monooxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; steroid hydroxylase activity;

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