Recombinant Human CYP2S1 293 Cell Lysate

Cat. No. CYP2S1-7108HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 2, subfamily S, polypeptide 1 (CYP2S1) 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	CYP2S1 cytochrome P450, family 2, subfamily S, polypeptide 1 [Homo sapiens]
Official Symbol	CYP2S1
Synonyms	CYP2S1; cytochrome P450, family 2, subfamily S, polypeptide 1; cytochrome P450, subfamily IIS, polypeptide 1; cytochrome P450 2S1; CYPIIS1; cytochrome P540, subfamily IIS, polypeptide 1; cytochrome P450 family member predicted from ESTs;
Gene ID	29785
mRNA Refseq	NM_030622
Protein Refseq	NP_085125
MIM	611529
UniProt ID	Q96SQ9
Chromosome Location	19q13.1
Pathway	Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem;

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	Miscellaneous substrates, organism-specific biosystem; Phase 1 - Functionalization of compounds, organism-specific biosystem;
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity;

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