

Recombinant Human CYP2E1 293 Cell Lysate

Cat. No. CYP2E1-7111HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 2, subfamily E, polypeptide 1 (CYP2E1) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	CYP2E1 cytochrome P450, family 2, subfamily E, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP2E1
Synonyms	CYP2E1; CPE1; CYP2E; P450-J; P450C2E; cytochrome P450, family 2, subfamily E, polypeptide 1; cytochrome P450 2E1; CYP1IIE1; cytochrome P450-J; microsomal monooxygenase; xenobiotic monooxygenase; 4-nitrophenol 2-hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1; NP_000764.1; EC 1.14.13.n7
Gene ID	1571
mRNA Refseq	NM_000773
Protein Refseq	NP_000764
MIM	124040
UniProt ID	P05181
Chromosome Location	10q26.3
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; CYP2E1 reactions, organism-specific biosystem; Chemical carcinogenesis, organism-specific biosystem; Cytochrome P450 - arranged

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by substrate type, organism-specific biosystem

Function

enzyme binding; heme binding; iron ion binding; monooxygenase activity; oxidoreductase activity;; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, NAD(P)H as one donor, and incorporation of one atom of oxygen; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; oxygen binding

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