

Recombinant Human CYP2E1 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

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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

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; CYP11E1; 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

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metabolism, conserved biosystem; CYP2E1 reactions, organism-specific biosystem; Chemical carcinogenesis, organism-specific biosystem; Cytochrome P450 - arranged 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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