

Recombinant Human CYP2D6 293 Cell Lysate

Cat. No. CYP2D6-7112HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 2, subfamily D, polypeptide 6 (CYP2D6), transcript variant 2 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 [CYP2D6 cytochrome P450, family 2, subfamily D, polypeptide 6 \[Homo sapiens \]](#)

Official Symbol [CYP2D6](#)

Synonyms

CYP2D6; cytochrome P450, family 2, subfamily D, polypeptide 6; CYP2D7AP, CYP2D7BP, CYP2D7P2, CYP2D8P2, CYP2DL1, cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 2 , cytochrome P450, family 2, subfamily D, polypeptide 8 pseudogene 2 , cytochrome P450, subfamily II (debrisoquine, sparteine, etc., metabolising), polypeptide 7 pseudogene 2 , cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., metabolising), polypeptide 8 pseudogene 2 , cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., metabolizing), polypeptide 6; cytochrome P450 2D6; CPD6; CYP2D; P450 DB1; P450C2D; cytochrome P450-DB1; microsomal monooxygenase; xenobiotic monooxygenase; debrisoquine 4-hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 2; cytochrome P450, family 2, subfamily D, polypeptide 8 pseudogene 2; cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing)-like 1; cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing), polypeptide 6; cytochrome P450, subfamily II (debrisoquine, sparteine, etc., -metabolising), polypeptide 7 pseudogene 2; cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolising), polypeptide 8 pseudogene 2; CYP2DL1; CYPIID6; P450DB1; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; P450-DB1; MGC120389; MGC120390;

Gene ID [1565](#)

mRNA Refseq [NM_000106](#)

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Protein Refseq	NP_000097
MIM	124030
UniProt ID	P10635
Chromosome Location	22q13.1
Pathway	Biological oxidations, organism-specific biosystem; Codeine and morphine metabolism, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	aromatase activity; drug binding; electron carrier activity; heme binding; heme binding; metal ion binding; monooxygenase activity; monooxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen;

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