

Recombinant Human CYP24A1 293 Cell Lysate

Cat. No. CYP24A1-7122HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 24, subfamily A, polypeptide 1 (CYP24A1), nuclear gene encoding mitochondrial protein, transcript variant 1 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

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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	CYP24A1 cytochrome P450, family 24, subfamily A, polypeptide 1 [Homo sapiens]
Official Symbol	CYP24A1
Synonyms	CYP24A1; cytochrome P450, family 24, subfamily A, polypeptide 1; CYP24, cytochrome P450, subfamily XXIV (vitamin D 24 hydroxylase); 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; CP24; P450 CC24; 24-OHase; cytochrome P450 24A1; cytochrome P450-CC24; vitamin D 24-hydroxylase; exo-mitochondrial protein; vitamin D(3) 24-hydroxylase; 1,25-@dihydroxyvitamin D3 24-hydroxylase; cytochrome P450, subfamily XXIV (vitamin D 24-hydroxylase); HCAI; CYP24; P450-CC24; MGC126273; MGC126274;
Gene ID	1591
mRNA Refseq	NM_000782
Protein Refseq	NP_000773
MIM	126065
UniProt ID	Q07973
Chromosome Location	20q13.2-q13.3
Pathway	Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by

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substrate type, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem; Nuclear receptors in lipid metabolism and toxicity, organism-specific biosystem; Phase 1 - Functionalization of compounds, organism-specific biosystem;

Function

1-alpha,25-dihydroxyvitamin D3 24-hydroxylase activity; 25-hydroxycholecalciferol-24-hydroxylase activity; electron carrier activity; heme binding; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen;

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