

Recombinant Human CYP2R1 293 Cell Lysate

Cat. No. CYP2R1-7109HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 2, subfamily R, polypeptide 1 (CYP2R1) 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 CYP2R1 cytochrome P450, family 2, subfamily R, polypeptide 1 [Homo sapiens]

Official Symbol CYP2R1

Synonyms CYP2R1; cytochrome P450, family 2, subfamily R, polypeptide 1; vitamin D 25-hydroxylase; cytochrome P450 2R1; cytochrome P450, family 2, R1; MGC4663;

Gene ID 120227

mRNA Refseq NM_024514

Protein Refseq NP_078790

MIM 608713

UniProt ID Q6VWX0

Chromosome Location 11p15.2

Pathway 1,25-dihydroxyvitamin D3 biosynthesis, conserved biosystem; Biological oxidations, organism-specific biosystem; Cholecalciferol biosynthesis, organism-specific biosystem; Cholecalciferol biosynthesis, conserved biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

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Function

cholestanetriol 26-monooxygenase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; vitamin D3 25-hydroxylase activity;

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