Recombinant Human CYP2C8 293 Cell Lysate

Cat. No. CYP2C8-7114HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 2, subfamily C, polypeptide 8 (CYP2C8) 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	CYP2C8 cytochrome P450, family 2, subfamily C, polypeptide 8 [Homo sapiens]
Official Symbol	CYP2C8
Synonyms	CYP2C8; cytochrome P450, family 2, subfamily C, polypeptide 8; cytochrome P450, subfamily IIC (mephenytoin 4 hydroxylase), polypeptide 8; cytochrome P450 2C8; CPC8; P450 form 1; cytochrome P450 IIC2; cytochrome P450 MP-12; cytochrome P450 MP-20; cytochrome P450 form 1; microsomal monooxygenase; xenobiotic monooxygenase; s-mephenytoin 4-hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 8; CYPIIC8; MP-12/MP-20;
Gene ID	1558
mRNA Refseq	NM_000770
Protein Refseq	NP_000761
UniProt ID	P10632
Chromosome Location	10q24.1
Pathway	Arachidonate Epoxygenase / Epoxide Hydrolase, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid

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	metabolism, conserved biosystem; Biological oxidations, 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;
Function	aromatase activity; caffeine oxidase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen;

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