

Recombinant Human CYP2C18 cell lysate

Cat. No. CYP2C18-434HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

Description

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum but its specific substrate has not yet been determined. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. An additional gene, CYP2C17, was once thought to exist; however, CYP2C17 is now considered an artefact based on a chimera of CYP2C18 and CYP2C19. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

Gene Name

CYP2C18 cytochrome P450, family 2, subfamily C, polypeptide 18 [Homo sapiens]

Official Symbol

CYP2C18

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Synonyms	CYP2C18; cytochrome P450, family 2, subfamily C, polypeptide 18; CYP2C17, cytochrome P450, subfamily IIC (mephenytoin 4 hydroxylase), polypeptide 18; cytochrome P450 2C18; CPC1; CYP2C; P450IIC17; CYP1IC18; cytochrome P450-6B/29C; microsomal monooxygenase; unspecific monooxygenase; flavoprotein-linked monooxygenase; (S)-mephenytoin hydroxylase associated cytochrome P450; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 17; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 18; CYP2C17; P450-6B/29C; DKFZp686l24235;
Gene ID	1562
mRNA Refseq	NM_000772
Protein Refseq	NP_000763
MIM	601131
UniProt ID	P33260
Chromosome Location	10q24
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid 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; FOXA1 transcription factor network, organism-specific biosystem;
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with

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incorporation or reduction of molecular oxygen; oxygen binding; testosterone 16-alpha-hydroxylase activity;

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