

Active Recombinant Human CYP2C9 1(Wild type allele)

Cat. No. CYP2C9-543H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cytochrome P450 2C9*1 (Wild type allele) was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>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 and its expression is induced by rifampin. The enzyme is known to metabolize many xenobiotics, including phenytoin, tolbutamide, ibuprofen and S-warfarin. Studies identifying individuals who are poor metabolizers of phenytoin and tolbutamide suggest that this gene is polymorphic. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24.</p>
Bio-activity	12-88 units/mg protein
Molecular Mass	mol wt 54423.1 g/mol
Unit Definition	One unit will convert 1.0 nanomole of diclofenac (2-(2,6-dichloranilino) phenylacetic acid) 4'-hydroxylated product per minute at pH 7.4 at 37 °C.
Storage	-70°C

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Concentration 3.5-25 mg protein/mL (protein)50-150 nmol/mL (P450)6-14 nmol/mg protein (specific content)

GENE INFORMATION

Gene Name CYP2C9 cytochrome P450, family 2, subfamily C, polypeptide 9 [Homo sapiens (human)]

Official Symbol CYP2C9

Synonyms CYP2C9; CPC9; CYP2C; CYP2C10; CYP11C9; P45011C9; cytochrome P450, family 2, subfamily C, polypeptide 9; cytochrome P450 2C9; cytochrome P-450MP; cytochrome P450 PB-1; microsomal monooxygenase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P-450 S-mephenytoin 4-hydroxylase; NP_000762.2; EC 1.14.13.48; EC 1.14.13.49; EC 1.14.13.80

Gene ID 1559

mRNA Refseq NM_000771

Protein Refseq ?NP_000762

MIM 601130

UniProt ID P11712

Chromosome Location 10q24

Pathway Arachidonate Epoxygenase / Epoxide Hydrolase; Arachidonic acid metabolism; Drug metabolism - cytochrome P450

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Function

(R)-limonene 6-monooxygenase activity; drug binding; heme binding

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