

Recombinant Human CYP2C9/NADPH protein, Active

Cat. No. CYP2C9-363H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This is a permeabilized and stabilized dried yeast powder preparation containing recombinant human CYP2C9 and recombinant human P450 NADPH oxidoreductase co expressed in the same preparation.
Species	Human
Source	P.pastoris
Form	Lyophilized powder
Molecular Mass	55 Kda
Notes	Centrifuge the vial prior to opening
Storage	Stable for 1 year as supplied. Store dry powder at -20 centigrade. Reconstitute in 25 mM Potassium Phosphate buffer, pH 7.7. Not recommended to be stored as solution. If storing as solution, aliquot and store at -80 centigrade. Avoid repeated freeze/thaw cycles and use aliquots within one month (the human CYP2C9 will lose approximately 10% activity per week when stored at -80 centigrade). Thaw aliquots rapidly at 37 centigrade and place on ice until use (thawed aliquots should be used within 4 hours).
Reconstitution	25 mM Potassium Phosphate buffer, pH 7.7

GENE INFORMATION

 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

Gene Name	CYP2C9 cytochrome P450, family 2, subfamily C, polypeptide 9 [Homo sapiens]
Official Symbol	CYP2C9
Synonyms	CYP2C9; cytochrome P450, family 2, subfamily C, polypeptide 9; CYP2C10, cytochrome P450, subfamily IIC (mephenytoin 4 hydroxylase), polypeptide 9; cytochrome P450 2C9; P450IIC9; cytochrome P-450MP; cytochrome P450 PB-1; microsomal monooxygenase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P-450 S-mephenytoin 4-hydroxylase; CPC9; CYP2C; CYP2C10; CYP1IC9; MGC88320; MGC149605;
Gene ID	1559
mRNA Refseq	NM_000771
Protein Refseq	NP_000762
MIM	601130
UniProt ID	P11712
Chromosome Location	10q24.1
Pathway	Arachidonate Epoxygenase / Epoxide Hydrolase, organism-specific biosystem; 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;

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Function

(R)-limonene 6-monooxygenase activity; (S)-limonene 6-monooxygenase activity; (S)-limonene 7-monooxygenase activity; caffeine oxidase activity; drug binding; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; monooxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; steroid hydroxylase activity;

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