

Recombinant Human CYP2C19/NADPH protein, Active

Cat. No. CYP2C19-362H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This is a permeabilized and stabilized dried yeast powder preparation containing recombinant human CYP2C19 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 50 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 CYP2C19 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	50 mM Potassium Phosphate buffer, pH 7.7

GENE INFORMATION

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Gene Name	CYP2C19 cytochrome P450, family 2, subfamily C, polypeptide 19 [Homo sapiens]
Official Symbol	CYP2C19
Synonyms	CYP2C19; cytochrome P450, family 2, subfamily C, polypeptide 19; CYP2C, cytochrome P450, subfamily IIC (mephenytoin 4 hydroxylase), polypeptide 19; cytochrome P450 2C19; CPCJ; P450IIC19; CYP1IC17; CYP1IC19; cytochrome P450-11A; cytochrome P450-254C; cytochrome P-450 II C; microsomal monooxygenase; xenobiotic monooxygenase; mephenytoin 4-hydroxylase; S-mephenytoin 4-hydroxylase; (R)-limonene 6-monooxygenase; (S)-limonene 6-monooxygenase; (S)-limonene 7-monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19; CYP2C; P450C2C;
Gene ID	1557
mRNA Refseq	NM_000769
Protein Refseq	NP_000760
MIM	124020
UniProt ID	P33261
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; Linoleic acid metabolism,

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organism-specific biosystem;

Function

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

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