

## Recombinant Human CYP2C19/NADPH protein, Active

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	P.pastoris
<b>Form</b>	Lyophilized powder
<b>Molecular Mass</b>	55 Kda
<b>Notes</b>	Centrifuge the vial prior to opening
<b>Storage</b>	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).
<b>Reconstitution</b>	50 mM Potassium Phosphate buffer, pH 7.7

### GENE INFORMATION

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<b>Gene Name</b>	CYP2C19 cytochrome P450, family 2, subfamily C, polypeptide 19 [ Homo sapiens ]
<b>Official Symbol</b>	CYP2C19
<b>Synonyms</b>	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;
<b>Gene ID</b>	1557
<b>mRNA Refseq</b>	NM_000769
<b>Protein Refseq</b>	NP_000760
<b>MIM</b>	124020
<b>UniProt ID</b>	P33261
<b>Chromosome Location</b>	10q24
<b>Pathway</b>	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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