

Recombinant Human CYP2C19, MYC/DDK-tagged

Cat. No. CYP2C19-538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP2C19 fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
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 and is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, omeprazole, diazepam and some barbiturates. Polymorphism within this gene is associated with variable ability to metabolize mephenytoin, known as the poor metabolizer and extensive metabolizer phenotypes. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24.
Molecular Mass	55.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Storage	Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Concentration	>50 ug/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	CYP2C19 cytochrome P450, family 2, subfamily C, polypeptide 19 [Homo sapiens (human)]
Official Symbol	CYP2C19
Synonyms	CYP2C19; CPCJ; CYP2C; P450C2C; P450IIC19; cytochrome P450, family 2, subfamily C, polypeptide 19; cytochrome P450 2C19; CYP1IC17; CYP1IC19; cytochrome P450-11A; cytochrome P450-254C; cytochrome P-450 II C; microsomal monooxygenase; xenobiotic monooxygenase; mephenytoin 4-hydroxylase; mephenytoin 4"-hydroxylase; S-mephenytoin 4-hydroxylase; (R)-limonene 6-monooxygenase; (R)-limonene 6-monooxygenase; (S)-limonene 6-monooxygenase; (S)-limonene 7-monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19; EC 1.14.13.48; EC 1.14.13.49
Gene ID	1557
mRNA Refseq	NM_000769
Protein Refseq	NP_000760
MIM	124020
UniProt ID	P33261
Chromosome Location	10q24

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Pathway	Arachidonic acid metabolism; Biological oxidations; Chemical carcinogenesis
Function	(R)-limonene 6-monooxygenase activity; (S)-limonene 7-monooxygenase activity; iron ion binding

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