

Recombinant Human CYP2C8, GST-tagged

Cat. No. CYP2C8-120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP2C8 full-length ORF (AAH20596.1, 1 a.a. - 490 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	1 a.a. - 490 a.a.
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 its expression is induced by phenobarbital. The enzyme is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, benzo(a)pyrene, 7-ethoxycoumarin, and the anti-cancer drug taxol. This gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. Several transcript variants encoding a few different isoforms have been found for this gene.
Molecular Mass	82.2 kDa
AA Sequence	MEPFVVLVLCLSFMLLFSWLWRQSCRRRLPPGPTPLPIIGNMLQIDVKDICKSFTNFS KVYGPVFTVYFGMNPIV VFHGYESVKEALIDNGEEFSGRGNPISQRITKGLGISSN GKRWKEIRRFSLTTLRNFGMGKRSIEDRVQEEAH CLVEELRKTASPDCDPTFILGCA PCNVICSVVFQKRFDYKDQNFLTLMKRFNENFRILNSPWIQVCNNFPLLIDC FPGTH

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NKVLKNVALTRSYIREKVKEHQASLDVNNPRDFIDCFLIKMEQEKDNQKSEFNENLV
 GTVADLFVAGTE TTSTTLRYGLLLLLKHPEVTAKVQEEIDHVIGRHRSPCMQDRSHM
 PYTDAVVHEIQRYSDLVPTGVPHAVTTDTK FRNYLIPKGTTIMALLTSVLHDDKEFPN
 PNIFDPGHFLDKNGNFKKSDYFMPFSAGKRICAGEGLARMELFLFLT TILQNFNLKS
 VDDLKLNLTAVTKGIVSLPPSYQICFIPV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot; Antibody Production; Protein Array

Storage

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

CYP2C8 cytochrome P450, family 2, subfamily C, polypeptide 8 [Homo sapiens (human)]

Official Symbol

CYP2C8

Synonyms

CYP2C8; CPC8; CYP11C8; MP-12/MP-20; cytochrome P450, family 2, subfamily C, polypeptide 8; cytochrome P450 2C8; P450 form 1; cytochrome P450 IIC2; cytochrome P450 MP-12; cytochrome P450 MP-20; cytochrome P450 form 1; microsomal monooxygenase; xenobiotic monooxygenase; s-mephenytoin 4-hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 8; EC 1.14.14.1

Gene ID

1558

mRNA Refseq

NM_000770

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Protein Refseq	NP_000761
MIM	601129
UniProt ID	P10632
Chromosome Location	10q23.33
Pathway	Arachidonate Epoxygenase / Epoxide Hydrolase; Arachidonic acid metabolism; Biological oxidations
Function	aromatase activity; caffeine oxidase activity; electron carrier activity

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