

## Recombinant Human CYP2C8, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Human CYP2C8 full-length ORF ( AAH20596.1, 1 a.a. - 490 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	1 a.a. - 490 a.a.
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	82.2 kDa
<b>AA Sequence</b>	<pre>MEPFVVLVLCLSFMLLFLSLWRQSCRRRKLPPGPTPLPIIGNMLQIDVKDICKSFTNFS KVYGPVFTVYFGMNPIV VFHGYESVKEALIDNGEEFSGRGNPISQRITKGLGISSN GKRWKEIRRFSLTTLRNFGMGKRSIEDRVQEEAH CLVEELRRTKASPCDPTFILGCA PCNVICSVVFQKRFDYKDQNFLLTLMKRFNENFRILNSPWIVQVNNFLLIDC FPGTH</pre>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



NKVLKNVALTRSYIREKVKEHQASLDVNNPRDFIDCFLIKMEQEKDNQKSEFNENLV  
GTVADLFVAGTE TTSTTLRYGLLLLLKHPEVTAKVQEEIDHVIGRHRSPCMQDRSHM  
PYTDAVVHEIQRYSDLVPTGVPHAVTTDTK FRNYLIPKGTTIMALLTSVLHDDKEFPN  
PNIFDPGHFLDKNGNFKKSDYFMPFSAGKRICAGEGLARMELFLFLT TILQNFNLKS  
VDDLKNLNTTAVTKGIVSLPPSYQICFIPV

**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; CYPIIC8; 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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<b>Protein Refseq</b>	NP_000761
<b>MIM</b>	601129
<b>UniProt ID</b>	P10632
<b>Chromosome Location</b>	10q23.33
<b>Pathway</b>	Arachidonate Epoxygenase / Epoxide Hydrolase; Arachidonic acid metabolism; Biological oxidations
<b>Function</b>	aromatase activity; caffeine oxidase activity; electron carrier activity

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