Recombinant Full Length Human CYP2C8 Protein

Cat. No. CYP2C8-109HF **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	In Vitro Cell Free System
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-ethyoxycoumarin, 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	MEPFVVLVLC LSFMLLFSLW RQSCRRRKLP PGPTPLPIIG NMLQIDVKDI CKSFTNFSKV YGPVFTVYFG MNPIVVFHGY ESVKEALIDN GEEFSGRGNS PISQRITKGL GIISSNGKRW KEIRRFSLTT LRNFGMGKRS IEDRVQEEAH CLVEELRKTK ASPCDPTFIL GCAPCNVICS VVFQKRFDYK DQNFLTLMKR

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	FNENFRILNS PWIQVCNNFP LLIDCFPGTH NKVLKNVALT RSYIREKVKE HQASLDVNNP RDFIDCFLIK MEQEKDNQKS EFNIENLVGT VADLFVAGTE TTSTTLRYGL LLLLKHPEVT AKVQEEIDHV IGRHRSPCMQ DRSHMPYTDA VVHEIQRYSD LVPTGVPHAV TTDTKFRNYL IPKGTTIMAL LTSVLHDDKE FPNPNIFDPG HFLDKNGNFK KSDYFMPFSA GKRICAGEGL ARMELFLFLT TILQNFNLKS VDDLKNLNTT AVTKGIVSLP PSYQICFIPV
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot; Antibody Production; Protein Array
Storage	Store at -80 centigrade. 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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Protein Refseq	NP_000761
MIM	601129
UniProt ID	P10632

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