Recombinant Full Length Human CYP2C9 Protein, GST-tagged

Cat. No. CYP2C9-113HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP2C9 full-length ORF (AAH20754.1, 1 a.a. - 162 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1 a.a. - 162 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 rifampin. The enzyme is known to metabolize many xenobiotics, including phenytoin, tolbutamide, ibuprofen and S-warfarin. Studies identifying individuals who are poor metabolizers of phenytoin and tolbutamide suggest that this gene is polymorphic. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24.
Molecular Mass	43.56 kDa
AA Sequence	MDSLVVLVLC LSCLLLLSLW RQSSGRGKLP PGPTPLPVIG NILQIGIKDI SKSLTNLSKV YGPVFTLYFG LKPIVVLHGY EAVKEALIDL GEEFSGRGIF PLAERANRGF GIVFSNGKKW KEIRRFSLMT LRNFGMGKRS IEDRVQEEAR CLVEELRKTK GG

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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	CYP2C9 cytochrome P450, family 2, subfamily C, polypeptide 9 [Homo sapiens (human)]
Official Symbol	CYP2C9
Synonyms	CYP2C9; CPC9; CYP2C; CYP2C10; CYPIIC9; P450IIC9; cytochrome P450, family 2, subfamily C, polypeptide 9; cytochrome P450 2C9; cytochrome P-450MP; cytochrome P450 PB-1; microsomal monooxygenase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P-450 S-mephenytoin 4-hydroxylase; EC 1.14.13.48; EC 1.14.13.49; EC 1.14.13.80
Gene ID	1559
mRNA Refseq	NM_000771
Protein Refseq	NP_000762
MIM	601130
UniProt ID	P11712

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