CYP2C8 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CYP2C8, Blocking Peptide
Full Product Name	CYP2C8 Peptide - C-terminal region
Product Gene Name	CYP2C8 blocking peptide
Product Synonym Gene Name	CPC8; CYPIIC8; MP-12/MP-20; ; CYP2C8
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	CYP2C8 peptide (MBS3239607) is used for blocking the activity of CYP2C8 antibody (MBS3214670)
Molecular Weight	42
OMIM	601129
Product Categories/Family for CYP2C8 blocking peptide	Peptide
Applications Tested/Suitable for CYP2C8 blocking peptide	Western Blot (WB)
Related Product Information for CYP2C8 blocking peptide	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.
Other Notes	Small volumes of CYP2C8 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CYP2C8 purchase	MBS3239607 is a blocking peptide targeting CYP2C8. Also known as CYP2C8 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2C8. It may not necessarily be applicable to this product.

NCBI GI #	98991773
NCBI GeneID	1558
NCBI Accession #	NP_000761.3
UniProt Primary Accession #	P10632
UniProt Related Accession #	P10632
GenBank Nucleotide #	NM_000770.3
NCBI Official Full Name	cytochrome P450 2C8 isoform a

NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily C member 8
NCBI Official Symbol	CYP2C8
NCBI Official Synonym Symbols	CPC8; CYPIIC8; CYP2C8DM; MP-12/MP-20
UniProt Protein Name	Cytochrome P450 2C8
UniProt Synonym Protein Names	CYPIIC8; Cytochrome P450 IIC2; Cytochrome P450 MP-12; Cytochrome P450 MP-20; Cytochrome P450 form 1; S-mephenytoin 4-hydroxylase
Protein Family	Cytochrome
UniProt Gene Name	CYP2C8
UniProt Entry Name	CP2C8_HUMAN
NCBI Protein Information	cytochrome P450 2C8
UniProt Comments for CYP2C8	CYP2C8: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. In the epoxidation of arachidonic acid it generates only 14,15- and 11,12-cis-epoxyeicosatrienoic acids. It is the principal enzyme responsible for the metabolism the anti-cancer drug paclitaxel (taxol). Belongs to the cytochrome P450 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cofactor and Vitamin Metabolism - retinol; Lipid Metabolism - linoleic acid; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Lipid Metabolism - arachidonic acid; Xenobiotic Metabolism - metabolism by cytochrome P450; Oxidoreductase; EC 1.14.14.1 Chromosomal Location of Human Ortholog: 10q23.33 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle; cytoplasm Molecular Function: iron ion binding; heme binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; arachidonic acid epoxygenase activity; steroid hydroxylase activity; oxygen binding; monooxygenase activity Biological Process: organic acid metabolic process; xenobiotic metabolic process; exogenous drug catabolic process; arachidonic acid metabolic process; epoxygenase P450 pathway; drug metabolic process
Research Articles on CYP2C8	**1.** In the villous trophoblast, CYP2C8 was the most abundant protein. Its expression is higher than the CYP2C9 and CYP2J2 in the cytotrophoblast in the embryonic stage of development and remains higher in syncytiotrophoblast of term placenta.
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