CYP2A7 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CYP2A7, Blocking Peptide
Full Product Name	CYP2A7 Peptide - middle region
Product Gene Name	CYP2A7 blocking peptide
Product Synonym Gene Name	CPA7; CPAD; CYP2A; CYPIIA7; P450-IIA4
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	CYP2A7 peptide (MBS3231004) is used for blocking the activity of CYP2A7 antibody (MBS3206041)
Molecular Weight	56kDa
OMIM	608054
Product Categories/Family for CYP2A7 blocking peptide	Peptide
Applications Tested/Suitable for CYP2A7 blocking peptide	Western Blot (WB)
Related Product Information for CYP2A7 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CYP2A7 antibody made Target 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 local
Other Notes	Small volumes of CYP2A7 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 CYP2A7 purchase	MBS3231004 is a blocking peptide targeting CYP2A7. Also known as CYP2A7 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2A7. It may not necessarily be applicable to this product.

NCBI GI #	15147330
NCBI GeneID	1549
NCBI Accession #	NP_000755
UniProt Primary Accession #	P20853
UniProt Related Accession #	P20853
GenBank Nucleotide #	NM_172058
NCBI Official Full Name	cytochrome P450 2A7 isoform 1
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily A member 7
NCBI Official Symbol	CYP2A7

NCBI Official Synonym Symbols	CPA7; CPAD; CYP2A; CYPIIA7; P450-IIA4
UniProt Protein Name	Cytochrome P450 2A7
UniProt Synonym Protein Names	CYPIIA7; Cytochrome P450 IIA4
Protein Family	Cytochrome
UniProt Gene Name	CYP2A7
UniProt Entry Name	CP2A7_HUMAN
NCBI Protein Information	cytochrome P450 2A7
NCBI Summary for CYP2A7	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; its substrate has not yet been determined. This gene, which produces two transcript variants, is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]
UniProt Comments for CYP2A7	CYP2A7: 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. Belongs to the cytochrome P450 family. Protein type: Xenobiotic Metabolism - drug metabolism - cytochrome P450; Cofactor and Vitamin Metabolism - retinol; Oxidoreductase; Xenobiotic Metabolism - drug metabolism - other enzymes; EC 1.14.14.1; Endoplasmic reticulum; Secondary Metabolites Metabolism - caffeine Chromosomal Location of Human Ortholog: 19q13.2 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 Biological Process: coumarin metabolic process; xenobiotic metabolic process; exogenous drug catabolic process; epoxygenase P450 pathway
Research Articles on CYP2A7	**1.** CNV deletion at the CYP2A7 is associated with decreased ovarian cancer risk in BRCA1 carriers.
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