CYP2U1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CYP2U1, Blocking Peptide
Full Product Name	CYP2U1 Peptide - middle region
Product Gene Name	CYP2U1 blocking peptide
Product Synonym Gene Name	P450TEC
Sequence	VNICPWLYYL PFGPFKELRQ IEKDITSFLK KIIKDHQESL DRENPQDFID
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	CYP2U1 peptide (MBS3240303) is used for blocking the activity of CYP2U1 antibody (MBS3215399)
Molecular Weight	60kDa
OMIM	610670
Product Categories/Family for CYP2U1 blocking peptide	Peptide
Applications Tested/Suitable for CYP2U1 blocking peptide	Western Blot (WB)
Related Product Information for CYP2U1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CYP2U1 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 enzyme is a hydroxylase that metabolizes arachidonic acid, docosahexaenoic acid, and other long chain fatty acids.
Other Notes	Small volumes of CYP2U1 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 CYP2U1 purchase	MBS3240303 is a blocking peptide targeting CYP2U1. Also known as CYP2U1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2U1. It may not necessarily be applicable to this product.

NCBI GI #	34098959
NCBI GeneID	113612
NCBI Accession #	NP_898898
UniProt Primary Accession #	Q7Z449
UniProt Related Accession #	Q7Z449
GenBank Nucleotide #	NM_183075
NCBI Official Full Name	cytochrome P450 2U1

NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily U member 1
NCBI Official Symbol	CYP2U1
NCBI Official Synonym Symbols	SPG49; SPG56; P450TEC
UniProt Protein Name	Cytochrome P450 2U1
Protein Family	Cytochrome
UniProt Gene Name	CYP2U1
UniProt Entry Name	CP2U1_HUMAN
NCBI Protein Information	cytochrome P450 2U1
NCBI Summary for CYP2U1	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 enzyme is a hydroxylase that metabolizes arachidonic acid, docosahexaenoic acid, and other long chain fatty acids. [provided by RefSeq, Jul 2008]
UniProt Comments for CYP2U1	CYP2U1: Catalyzes the hydroxylation of arachidonic acid, docosahexaenoic acid and other long chain fatty acids. May modulate the arachidonic acid signaling pathway and play a role in other fatty acid signaling processes. Belongs to the cytochrome P450 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; EC 1.14.14.1; Membrane protein, integral; Lipid Metabolism - arachidonic acid; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 4q25 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle; cytoplasm; integral to membrane 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; steroid hydroxylase activity; oxygen binding Biological Process: organic acid metabolic process; xenobiotic metabolic process; exogenous drug catabolic process; arachidonic acid metabolic process Disease: Spastic Paraplegia 56, Autosomal Recessive
Research Articles on CYP2U1	**1.** Most CYP2U1 missense mutations in hereditary spastic paraplegia 56 lead to an inhibition of enzymatic activity that can be explained by the loss of proper heme binding to the protein or modification in protein structure.
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