CYP2S1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CYP2S1, Blocking Peptide
Full Product Name	CYP2S1 Peptide - C-terminal region
Product Gene Name	CYP2S1 blocking peptide
Sequence	MKYPHVQKWV REELNRELGA GQAPSLGDRT RLPYTDAVLH EAQRLLALVP
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	CYP2S1 peptide (MBS3226364) is used for blocking the activity of CYP2S1 antibody (MBS3201342)
Molecular Weight	56kDa
OMIM	611529
Product Categories/Family for CYP2S1 blocking peptide	Peptide
Applications Tested/Suitable for CYP2S1 blocking peptide	Western Blot (WB)
Related Product Information for CYP2S1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CYP2S1 Antibody, made Target Description: CYP2S1 has a potential importance for extrahepatic xenobiotic metabolism.
Other Notes	Small volumes of CYP2S1 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 CYP2S1 purchase	MBS3226364 is a blocking peptide targeting CYP2S1. Also known as CYP2S1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2S1. It may not necessarily be applicable to this product.

NCBI GI #	13449277
NCBI GeneID	29785
NCBI Accession #	NP_085125
UniProt Primary Accession #	Q96SQ9
UniProt Related Accession #	Q96SQ9
GenBank Nucleotide #	NM_030622
NCBI Official Full Name	cytochrome P450 2S1
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily S member 1
NCBI Official Symbol	CYP2S1

NCBI Official Synonym Symbols	CYPIIS1
UniProt Protein Name	Cytochrome P450 2S1
UniProt Synonym Protein Names	CYPIIS1
Protein Family	Cytochrome
UniProt Gene Name	CYP2S1
UniProt Entry Name	CP2S1_HUMAN
NCBI Protein Information	cytochrome P450 2S1
NCBI Summary for CYP2S1	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. In rodents, the homologous protein has been shown to metabolize certain carcinogens; however, the specific function of the human protein has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for CYP2S1	CYP2S1: Has a potential importance for extrahepatic xenobiotic metabolism. Belongs to the cytochrome P450 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Xenobiotic Metabolism - metabolism by cytochrome P450; Oxidoreductase; EC 1.14.14.1 Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle; endoplasmic reticulum; 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: xenobiotic metabolic process; exogenous drug catabolic process; epoxygenase P450 pathway
Research Articles on CYP2S1	**1.** These results suggest that oxaliplatin exerts its inhibitory effects in human CRC cells via upregulation of CYP2S1 expression in a p53-dependent manner.
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