EPHX2 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	EPHX2, Blocking Peptide
Full Product Name	EPHX2 Immunizing Peptide
Product Gene Name	EPHX2 blocking peptide
Product Synonym Names	EPHX2; epoxide hydrolase 2, cytoplasmic; CEH; SEH; bifunctional epoxide hydrolase 2; epoxide hydratase; epoxide hydrolase 2, cytosolic; epoxide hydrolase, soluble
Sequence	C-SRTFKSLF RASDES
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	EPHX2 peptide (MBS428660) is used for blocking the activity of EPHX2 antibody (MBS423518)
Molecular Weight	55,626 Da
OMIM	132811
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for EPHX2 blocking peptide	MBS428660 is a blocking peptide targeting EPHX2. Also known as EPHX2 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of EPHX2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPHX2. It may not necessarily be applicable to this product.

NCBI GI #	27597073
NCBI GeneID	2053
NCBI Accession #	NP_001970.2
NCBI Related Accession #	NP_001243411.1; NP_001243412.1
UniProt Secondary Accession #	Q16764; Q9HBJ1; Q9HBJ2; B2Z3B1; B3KTU8; B3KUA0; G3V134; J3KPH7
UniProt Related Accession #	P34913
GenBank Nucleotide #	NM_001979.5
NCBI Official Full Name	bifunctional epoxide hydrolase 2 isoform a
NCBI Official Synonym Full Names	epoxide hydrolase 2
NCBI Official Symbol	EPHX2
NCBI Official Synonym Symbols	CEH; SEH
UniProt Protein Name	Bifunctional epoxide hydrolase 2

UniProt Synonym Protein Names	Cytosolic epoxide hydrolase 2 (EC:3.3.2.10); CEHAlternative name(s):Epoxide hydratase; Soluble epoxide hydrolase; SEH
Protein Family	Bifunctional epoxide hydrolase
UniProt Gene Name	EPHX2
UniProt Synonym Gene Names	CEH; SEH
UniProt Entry Name	HYES_HUMAN
NCBI Protein Information	bifunctional epoxide hydrolase 2
NCBI Summary for EPHX2	This gene encodes a member of the epoxide hydrolase family. The protein, found in both the cytosol and peroxisomes, binds to specific epoxides and converts them to the corresponding dihydrodiols. Mutations in this gene have been associated with familial hypercholesterolemia. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2012]
UniProt Comments for EPHX2	EPHX2: Bifunctional enzyme. The C-terminal domain has epoxide hydrolase activity and acts on epoxides (alkene oxides, oxiranes) and arene oxides. Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides. Also determines steady-state levels of physiological mediators. The N-terminal domain has lipid phosphatase activity, with the highest activity towards threo- 9,10-phosphonooxy-hydroxy-octadecanoic acid, followed by erythro-9,10-phosphonooxy-hydroxy-octadecanoic acid, 12-phosphonooxy- octadec-9Z-enoic acid, 12-phosphonooxy-octadec-9E-enoic acid, and p-nitrophenyl phospate. Belongs to the AB hydrolase superfamily. Epoxide hydrolase family. Protein type: EC 3.1.3.76; Lipid Metabolism - arachidonic acid; Hydrolase; EC 3.3.2.10 Chromosomal Location of Human Ortholog: 8p21 Cellular Component: cytoplasm; cytosol; peroxisome Molecular Function: epoxide hydrolase activity; lipid phosphatase activity; lipid-phosphate phosphatase activity; magnesium ion binding; phosphoric monoester hydrolase activity; protein homodimerization activity; receptor binding; toxin binding Biological Process: cellular calcium ion homeostasis; cholesterol homeostasis; dephosphorylation; drug metabolic process; epoxygenase P450 pathway; inflammatory response; phospholipid dephosphorylation; positive regulation of vasodilation; regulation of blood pressure; response to toxin; stilbene catabolic process; xenobiotic metabolic process Disease: Hypercholesterolemia, Familial
Research Articles on EPHX2	**1.** Suggest role for Ephx2 in vascular smooth muscle phenotypic modulation and migration in the development of atherosclerosis.
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