GOT1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	GOT1, Blocking Peptide
Full Product Name	GOT1 Immunizing Peptide
Product Gene Name	GOT1 blocking peptide
Product Synonym Names	GOT1; glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1); GIG18; aspartate aminotransferase 1; growth-inhibiting protein 18; GOT1 (aa 157-167)
Sequence	C-RSYRYWDA EKR
Species Reactivity	Human, Rat
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	GOT1 peptide (MBS425609) is used for blocking the activity of GOT1 antibody (MBS420584)
Antibody/Peptide Pairs	GOT1 peptide (MBS425609) is used for blocking the activity of GOT1 antibody (MBS423728)
Molecular Weight	44,147 Da
OMIM	138180
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for GOT1 blocking peptide	MBS425609 is a blocking peptide targeting GOT1. Also known as GOT1 Immunizing Peptide. Reactive in Human, Rat.
Other Notes	Small volumes of GOT1 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 GOT1. It may not necessarily be applicable to this product.

NCBI GI #	4504067
NCBI GeneID	2805
NCBI Accession #	NP_002070.1
UniProt Secondary Accession #	Q5VW80; B2R6R7; B7Z7E9
UniProt Related Accession #	P17174
GenBank Nucleotide #	NM_002079.2
NCBI Official Full Name	aspartate aminotransferase, cytoplasmic
NCBI Official Synonym Full Names	glutamic-oxaloacetic transaminase 1
NCBI Official Symbol	GOT1
NCBI Official Synonym Symbols	AST1; cCAT; GIG18; cAspAT; ASTQTL1
UniProt Protein Name	Aspartate aminotransferase, cytoplasmic

UniProt Synonym Protein Names	Cysteine aminotransferase, cytoplasmic; Cysteine transaminase, cytoplasmic; cCAT; Glutamate oxaloacetate transaminase 1; Transaminase A
Protein Family	Aspartate aminotransferase
UniProt Gene Name	GOT1
UniProt Synonym Gene Names	cAspAT; cCAT
UniProt Entry Name	AATC_HUMAN
NCBI Protein Information	aspartate aminotransferase, cytoplasmic
NCBI Summary for GOT1	Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. [provided by RefSeq, Jul 2008]
UniProt Comments for GOT1	GOT1: Plays a key role in amino acid metabolism. Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. Protein type: Amino Acid Metabolism - phenylalanine, tyrosine and tryptophan biosynthesis; Amino Acid Metabolism - alanine, aspartate and glutamate; EC 2.6.1.1; Transferase; EC 2.6.1.3; Amino Acid Metabolism - cysteine and methionine; Amino Acid Metabolism - arginine and proline; Amino Acid Metabolism - phenylalanine; Amino Acid Metabolism - tyrosine Chromosomal Location of Human Ortholog: 10q24.1-q25.1 Cellular Component: cytoplasm; cytosol; lysosome; mitochondrion; nerve terminal; nucleus Molecular Function: aspartate transaminase activity; carboxylic acid binding; cysteine transaminase activity; identical protein binding; phosphatidylserine decarboxylase activity; pyridoxal phosphate binding Biological Process: 2-oxoglutarate metabolic process; amino acid biosynthetic process; aspartate biosynthetic process; aspartate catabolic process; aspartate metabolic process; cellular response to insulin stimulus; fatty acid homeostasis; gluconeogenesis; glutamate catabolic process to 2-oxoglutarate; glutamate catabolic process to aspartate; glutamate metabolic process; glycerol biosynthetic process; Notch signaling pathway; oxaloacetate metabolic process; response to glucocorticoid stimulus Disease: Aspartate Aminotransferase, Serum Level Of, Quantitative Trait Locus 1
Research Articles on GOT1	**1.** Human GOT1 was expressed in E coli, purified by affinity chromatography and preliminary crystallographic studies were done.
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