GLYAT Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	GLYAT, Blocking Peptide
Full Product Name	GLYAT Peptide - N-terminal region
Product Gene Name	GLYAT blocking peptide
Product Synonym Gene Name	ACGNAT; CAT; GAT
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	GLYAT peptide (MBS3234084) is used for blocking the activity of GLYAT antibody (MBS3209121)
Molecular Weight	34kDa
OMIM	607424
Product Categories/Family for GLYAT blocking peptide	Peptide
Applications Tested/Suitable for GLYAT blocking peptide	Western Blot (WB)
Related Product Information for GLYAT blocking peptide	This is a synthetic peptide designed for use in combination with anti-GLYAT antibody made Target Description: The glycine-N-acyltransferase protein conjugates glycine with acyl-CoA substrates in the mitochondria. The protein is thought to be important in the detoxification of endogenous and xenobiotic acyl-CoA's.The glycine-N-acyltransferase protein conjugates glycine with acyl-CoA substrates in the mitochondria. The protein is thought to be important in the detoxification of endogenous and xenobiotic acyl-CoA's. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of GLYAT 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 GLYAT purchase	MBS3234084 is a blocking peptide targeting GLYAT. Also known as GLYAT Peptide - N-terminal region.

ADDITIONAL DETAILS

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

NCBI GI #	111038137
NCBI GeneID	10249
NCBI Accession #	NP_964011
UniProt Primary Accession #	Q6IB77
UniProt Related Accession #	Q6IB77
GenBank Nucleotide #	NM_201648
NCBI Official Full Name	glycine N-acyltransferase isoform a
NCBI Official Synonym Full Names	glycine-N-acyltransferase
NCBI Official Symbol	GLYAT

NCBI Official Synonym Symbols	CAT; GAT; ACGNAT
UniProt Protein Name	Glycine N-acyltransferase
UniProt Synonym Protein Names	Acyl-CoA:glycine N-acyltransferase; AAc; Aralkyl acyl-CoA N-acyltransferase; Aralkyl acyl-CoA:amino acid N-acyltransferase; Benzoyl-coenzyme A:glycine N-acyltransferase; Glycine N-benzoyltransferase; HRP-1(CLP)
Protein Family	Glycine N-acyltransferase
UniProt Gene Name	GLYAT
UniProt Synonym Gene Names	ACGNAT; CAT; GAT; AAc
UniProt Entry Name	GLYAT_HUMAN
NCBI Protein Information	glycine N-acyltransferase
NCBI Summary for GLYAT	The glycine-N-acyltransferase protein conjugates glycine with acyl-CoA substrates in the mitochondria. The protein is thought to be important in the detoxification of endogenous and xenobiotic acyl-CoA's. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for GLYAT	GLYAT: Mitochondrial acyltransferase which transfers an acyl group to the N-terminus of glycine and glutamine, although much less efficiently. Can conjugate numerous substrates to form a variety of N-acylglycines, with a preference for benzoyl-CoA over phenylacetyl-CoA as acyl donors. Thereby detoxify xenobiotics, such as benzoic acid or salicylic acid, and endogenous organic acids, such as isovaleric acid. Belongs to the glycine N-acyltransferase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.3.1.13; Mitochondrial; EC 2.3.1.71; Transferase Chromosomal Location of Human Ortholog: 11q12.1 Cellular Component: mitochondrion; mitochondrial matrix Molecular Function: glycine N-benzoyltransferase activity; glycine N-acyltransferase activity; transferase activity, transferring acyl groups Biological Process: glycine metabolic process; acyl-CoA metabolic process; response to toxin; xenobiotic metabolic process; monocarboxylic acid metabolic process
Research Articles on GLYAT	**1.** GLYAT exhibits mechanistic kinetic cooperativity towards its substrate glycine.
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