CARNS1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	CARNS1, Blocking Peptide
Full Product Name	CARNS1 Blocking Peptide
Product Gene Name	CARNS1 blocking peptide
Product Synonym Names	ATP-grasp domain-containing protein 1; Atpgd1; Carnosine synthase 1; Carns1; CRNS1_HUMAN; Kiaa1394
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CARNS1 peptide (MBS9621582) is used for blocking the activity of CARNS1 antibody (MBS9611629)
Molecular Weight	88,484 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (67183149..67193078). Location: 11q13.2
OMIM	613368
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CARNS1 blocking peptide	Blocking/Control
Related Product Information for CARNS1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of CARNS1 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 CARNS1 purchase	MBS9621582 is a blocking peptide targeting CARNS1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CARNS1. It may not necessarily be applicable to this product.

NCBI GI #	261245046
NCBI GeneID	57571
NCBI Accession #	NP_001159694.1
UniProt Primary Accession #	A5YM72
UniProt Secondary Accession #	Q8N467; Q9P2F3; A8K1M3

UniProt Related Accession #	A5YM72
GenBank Nucleotide #	NP_001159694.1
NCBI Official Full Name	carnosine synthase 1 isoform 1
NCBI Official Synonym Full Names	carnosine synthase 1
NCBI Official Symbol	CARNS1
NCBI Official Synonym Symbols	ATPGD1
UniProt Protein Name	Carnosine synthase 1
UniProt Synonym Protein Names	ATP-grasp domain-containing protein 1
Protein Family	Carnosine synthase
UniProt Gene Name	CARNS1
UniProt Synonym Gene Names	ATPGD1; KIAA1394
UniProt Entry Name	CRNS1_HUMAN
NCBI Protein Information	carnosine synthase 1; ATP-grasp domain containing 1; ATP-grasp domain-containing protein 1
NCBI Summary for CARNS1	CARNS1 (EC 6.3.2.11), a member of the ATP-grasp family of ATPases, catalyzes the formation of carnosine (beta-alanyl-L-histidine) and homocarnosine (gamma-aminobutyryl-L-histidine), which are found mainly in skeletal muscle and the central nervous system, respectively (Drozak et al., 2010 [PubMed 20097752]).[supplied by OMIM, Apr 2010]
UniProt Comments for CARNS1	ATPGD1: Catalyzes the synthesis of carnosine and homocarnosine. Carnosine is synthesized more efficiently than homocarnosine. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.11 Chromosomal Location of Human Ortholog: 11q13.2 Molecular Function: carnosine synthase activity; metal ion binding; ATPase activity; ATP binding
Research Articles on CARNS1	**1.** carnosine synthase is identified as ATP-grasp domain-containing protein 1
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