HINT1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HINT1, Blocking Peptide
Full Product Name	HINT1 Blocking Peptide
Product Gene Name	HINT1 blocking peptide
Product Synonym Names	Adenosine 5' monophosphoramidase; Adenosine 5''-monophosphoramidase; HINT 1; HINT1; HINT1_HUMAN; Histidine triad nucleotide binding protein 1; Histidine triad nucleotide-binding protein 1; PKCI 1; PKCI-1; PKCI1; PRKCNH1; Protein kinase C inhibitor 1; Protein kinase C interacting protein 1; Protein kinase C-interacting protein 1
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	HINT1 peptide (MBS9623370) is used for blocking the activity of HINT1 antibody (MBS9604653)
Molecular Weight	13,802 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (130494875..130501034, complement). Location: 5q31.2
OMIM	137200
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 HINT1 blocking peptide	Blocking/Control
Related Product Information for HINT1 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 HINT1 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 HINT1 purchase	MBS9623370 is a blocking peptide targeting HINT1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HINT1. It may not necessarily be applicable to this product.

NCBI GI #	4885413
NCBI GeneID	3094
NCBI Accession #	NP_005331.1
UniProt Primary Accession #	P49773

UniProt Secondary Accession #	Q9H5W8
UniProt Related Accession #	P49773
GenBank Nucleotide #	NM_005340.6
NCBI Official Full Name	histidine triad nucleotide-binding protein 1
NCBI Official Synonym Full Names	histidine triad nucleotide binding protein 1
NCBI Official Symbol	HINT1
NCBI Official Synonym Symbols	HINT; NMAN; PKCI-1; PRKCNH1
UniProt Protein Name	Histidine triad nucleotide-binding protein 1
UniProt Synonym Protein Names	Adenosine 5'-monophosphoramidase; Protein kinase C inhibitor 1; Protein kinase C-interacting protein 1
Protein Family	Adenylylsulfatase
UniProt Gene Name	HINT1
UniProt Synonym Gene Names	HINT; PKCI1; PRKCNH1; PKCI-1
UniProt Entry Name	HINT1_HUMAN
NCBI Protein Information	histidine triad nucleotide-binding protein 1; protein kinase C inhibitor 1; adenosine 5'-monophosphoramidase; protein kinase C-interacting protein 1
NCBI Summary for HINT1	The protein encoded by this gene can hydrolyze substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester, and AMP-NH2. The encoded protein interacts with these substrates via a histidine triad motif, which is part of the loop that binds to the substrate. This gene has been found to be a tumor suppressing gene. Several transcript variants, but only one of them protein-coding, have been found for this gene. [provided by RefSeq, Dec 2012]
UniProt Comments for HINT1	HINT1: Hydrolyzes adenosine 5'-monophosphoramidate substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha- acetyl lysine methyl ester and AMP-NH2. Belongs to the HINT family. Protein type: Cytoskeletal; EC 3.-.-.-; Hydrolase Chromosomal Location of Human Ortholog: 5q31.2 Cellular Component: cytoskeleton; histone deacetylase complex; cytoplasm; plasma membrane; nucleus Molecular Function: protein kinase C binding; hydrolase activity; nucleotide binding Biological Process: regulation of transcription, DNA-dependent; transcription, DNA-dependent; purine ribonucleotide catabolic process; signal transduction Disease: Neuromyotonia And Axonal Neuropathy, Autosomal Recessive
Research Articles on HINT1	**1.** loss of functional HINT1 protein results in a distinct phenotype of autosomal recessive axonal neuropathy with neuromyotonia.
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