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

PRODUCT OVERVIEW

Product Name	CENPI, Blocking Peptide
Full Product Name	CENPI Blocking Peptide
Product Gene Name	CENPI blocking peptide
Product Synonym Names	CENP I; centromere protein I; Follicle simulating hormone primary response protein; FSH primary response 1; FSH primary response protein 1; FSH primary response, rat, homolog of, 1; FSHP1; FSHPRH1; interphase centromere complex protein 19; Leucine rich primary response gene 1; Leucine rich primary response protein 1; LRPR1; Mis6
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	CENPI peptide (MBS9622560) is used for blocking the activity of CENPI antibody (MBS9603842)
Molecular Weight	59,813 Da
OMIM	300065
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 CENPI blocking peptide	Blocking/Control
Related Product Information for CENPI 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 CENPI 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 CENPI purchase	MBS9622560 is a blocking peptide targeting CENPI.

ADDITIONAL DETAILS

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

NCBI GI #	973353086
NCBI GeneID	2491
NCBI Accession #	NP_001305452.1
UniProt Primary Accession #	Q92674
UniProt Secondary Accession #	Q5JWZ9; Q96ED0

UniProt Related Accession #	Q92674
GenBank Nucleotide #	NM_001318523.1
NCBI Official Full Name	centromere protein I isoform 3
NCBI Official Synonym Full Names	centromere protein I
NCBI Official Symbol	CENPI
NCBI Official Synonym Symbols	LRPR1; CENP-I; FSHPRH1
UniProt Protein Name	Centromere protein I
UniProt Synonym Protein Names	FSH primary response protein 1; Follicle-stimulating hormone primary response protein; Interphase centromere complex protein 19; Leucine-rich primary response protein 1
Protein Family	Centromere protein
UniProt Gene Name	CENPI
UniProt Synonym Gene Names	FSHPRH1; ICEN19; LRPR1; CENP-I
UniProt Entry Name	CENPI_HUMAN
NCBI Protein Information	centromere protein I
NCBI Summary for CENPI	This gene encodes a centromere protein that is a component of the CENPA-NAC (nucleosome-associated) complex. This complex is critical for accurate chromosome alignment and segregation and it ensures proper mitotic progression. This protein regulates the recruitment of kinetochore-associated proteins that are required to generate the spindle checkpoint signal. The product of this gene is involved in the response of gonadal tissues to follicle-stimulating hormone. Mutations in this gene may be involved in human X-linked disorders of gonadal development and gametogenesis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 13. [provided by RefSeq, Jan 2016]
UniProt Comments for CENPI	CENPI: involved in the response of gonadal tissues to follicle-stimulating hormone. Highly expressed in testis, ovary and spleen. Protein type: Unknown function Chromosomal Location of Human Ortholog: Xq22.1 Cellular Component: kinetochore; nucleoplasm; cytoplasm; nucleus; cytosol Molecular Function: protein binding Biological Process: nucleosome assembly; DNA replication-independent nucleosome assembly at centromere; mitotic cell cycle; sex differentiation
Research Articles on CENPI	**1.** CENP-C and CENP-I are key factors connecting kinetochore to CENP-A assembly.
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