MMS19 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	MMS19, Blocking Peptide
Full Product Name	MMS19 Blocking Peptide
Product Gene Name	MMS19 blocking peptide
Product Synonym Names	hMMS19; homolog of yeast MMS19; MET18; MET18 homolog; MET18MMS19 nucleotide excision repair homolog (S. cerevisiae); mms19; MMS19 nucleotide excision repair protein homolog; MMS19 nucleotide excision repair, S. cerevisiae, homolog of; MMS19-like (MET18 homolog, S. cerevisiae); MMS19-like protein; MMS19_HUMAN; MMS19L
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	MMS19 peptide (MBS9620917) is used for blocking the activity of MMS19 antibody (MBS9603440)
Molecular Weight	113,290 Da
OMIM	614777
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 MMS19 blocking peptide	Blocking/Control
Related Product Information for MMS19 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 MMS19 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 MMS19 purchase	MBS9620917 is a blocking peptide targeting MMS19.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMS19. It may not necessarily be applicable to this product.

NCBI GI #	574957085
NCBI GeneID	64210
NCBI Accession #	NP_001276332.1
UniProt Primary Accession #	Q96T76

UniProt Secondary Accession #	Q17RZ8; Q5T455; Q66K82; Q7L4W8; Q969Z1; B0QZ75; B3KPE5; B4DQX2; B4E2I3; D3DR55; F8W9Y2
UniProt Related Accession #	Q96T76
GenBank Nucleotide #	NM_001289403.1
NCBI Official Full Name	MMS19 nucleotide excision repair protein homolog isoform 2
NCBI Official Synonym Full Names	MMS19 nucleotide excision repair homolog (S. cerevisiae)
NCBI Official Symbol	MMS19
NCBI Official Synonym Symbols	MET18; MMS19L; hMMS19
UniProt Protein Name	MMS19 nucleotide excision repair protein homolog
UniProt Synonym Protein Names	MET18 homolog; MMS19-like protein
Protein Family	DNA repair/transcription protein
UniProt Gene Name	MMS19
UniProt Synonym Gene Names	MMS19L; hMMS19
UniProt Entry Name	MMS19_HUMAN
NCBI Protein Information	MMS19 nucleotide excision repair protein homolog; MET18 homolog; MMS19-like protein; homolog of yeast MMS19; MMS19-like (MET18 homolog, S. cerevisiae)
UniProt Comments for MMS19	MMS19: Key component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into apoproteins specifically involved in DNA metabolism and genomic integrity. In the CIA complex, MMS19 acts as an adapter between early-acting CIA components and a subset of cellular target iron-sulfur proteins such as ERCC2/XPD, FANCJ and RTEL1, thereby playing a key role in nucleotide excision repair (NER) and RNA polymerase II (POL II) transcription. As part of the mitotic spindle-associated MMXD complex, plays a role in chromosome segregation, probably by facilitating iron-sulfur cluster assembly into ERCC2/XPD. Indirectly acts as a transcriptional coactivator of estrogen receptor (ER), via its role in iron-sulfur insertion into some component of the TFIIH-machinery. Belongs to the MET18/MMS19 family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 10q24-q25 Cellular Component: nucleoplasm; holo TFIIH complex; membrane; cytoplasm; spindle; nucleus Molecular Function: protein binding, bridging; protein binding; receptor signaling complex scaffold activity; transcription coactivator activity; estrogen receptor binding Biological Process: transcription, DNA-dependent; nucleotide-excision repair; iron-sulfur cluster assembly; positive regulation of transcription, DNA-dependent; response to hormone stimulus; two-component signal transduction system (phosphorelay); DNA repair; response to DNA damage stimulus; DNA metabolic process; chromosome segregation
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