MEN1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MEN1, Blocking Peptide
Full Product Name	MEN1 Peptide - middle region
Product Gene Name	MEN1 blocking peptide
Product Synonym Gene Name	MEAI; SCG2
Sequence	Synthetic peptide located within the following region: VVFGPNGEQT AEVTWHGKGN EDRRGQTVNA GVAERSWLYL KGSYMRCDRK
Species Reactivity	Human
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	MEN1 peptide (MBS3248090) is used for blocking the activity of MEN1 antibody (MBS3223457)
Molecular Weight	67 kDa
OMIM	131100
Product Categories/Family for MEN1 blocking peptide	Peptide
Related Product Information for MEN1 blocking peptide	This is a synthetic peptide designed for use in combination with anti- MEN1 Antibody, made Target Description: This gene encodes menin, a putative tumor suppressor associated with a syndrome known as multiple endocrine neoplasia type 1. In vitro studies have shown menin is localized to the nucleus, possesses two functional nuclear localization signals, and inhibits transcriptional activation by JunD, however, the function of this protein is not known. Two messages have been detected on northern blots but the larger message has not been characterized. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of MEN1 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 MEN1 purchase	MBS3248090 is a blocking peptide targeting MEN1. Also known as MEN1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEN1. It may not necessarily be applicable to this product.

NCBI GI #	18860839
NCBI GeneID	4221
NCBI Accession #	NP_000235.2
UniProt Primary Accession #	O00255
UniProt Related Accession #	O00255
GenBank Nucleotide #	NM_000244.3
NCBI Official Full Name	menin isoform 1

NCBI Official Synonym Full Names	menin 1
NCBI Official Symbol	MEN1
NCBI Official Synonym Symbols	MEAI; SCG2
UniProt Protein Name	Menin
Protein Family	Menin
UniProt Gene Name	MEN1
UniProt Synonym Gene Names	SCG2
UniProt Entry Name	MEN1_HUMAN
NCBI Protein Information	menin
NCBI Summary for MEN1	This gene encodes menin, a putative tumor suppressor associated with a syndrome known as multiple endocrine neoplasia type 1. In vitro studies have shown menin is localized to the nucleus, possesses two functional nuclear localization signals, and inhibits transcriptional activation by JunD, however, the function of this protein is not known. Two messages have been detected on northern blots but the larger message has not been characterized. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2008]
UniProt Comments for MEN1	MEN1: Essential component of a MLL/SET1 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3 (H3K4). Functions as a transcriptional regulator. Binds to the TERT promoter and represses telomerase expression. Plays a role in TGFB1-mediated inhibition of cell-proliferation, possibly regulating SMAD3 transcriptional activity. Represses JUND-mediated transcriptional activation on AP1 sites, as well as that mediated by NFKB subunit RELA. Positively regulates HOXC8 and HOXC6 gene expression. May be involved in normal hematopoiesis through the activation of HOXA9 expression. May be involved in DNA repair. Component of MLL-containing complexes (named MLL, ASCOM, MLL2/MLL3 or MLL3/MLL4 complex): at least composed ASH2L, RBBP5, DPY30, WDR5, one or several histone methyltransferases (MLL, MLL2, MLL3 and/or MLL4), and the facultative components MEN1, HCFC1, HCFC2, NCOA6, KDM6A, PAXIP1/PTIP and C16orf53/PA1. Interacts with POLR2A phosphorylated at 'Ser-5', but not with the unphosphorylated, nor 'Ser-2' phosphorylated POLR2A forms. Interacts with FANCD2 and DBF4. Interacts with JUND. Interacts with SMAD3, but not with SMAD2, nor SMAD4. Directly interacts with NFKB1, NFKB2 and RELA. Ubiquitous. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 11q13 Cellular Component: nucleoplasm; histone methyltransferase complex; protein complex; nuclear matrix; cytoplasm; cytosol; nucleus; chromatin; cleavage furrow Molecular Function: protein binding, bridging; Y-form DNA binding; protein binding; four-way junction DNA binding; sequence-specific DNA binding; double-stranded DNA binding; protein N-terminus binding; chromatin binding; histone-lysine N-methyltransferase activity Biological Process: negative regulation of JNK cascade; maternal process involved in pregnancy; positive regulation of protein binding; positive regulation of caspase activity; palate development; negative regulation of transcription from RNA polymerase II promoter; negative regulation of cell cycle; negative regulation of cell proliferation; negative regulation of protein amino acid phosphorylation; transforming growth factor beta receptor signaling pathway; response to gamma radiation; negative regulation of osteoblast differentiation; hemopoiesis; cell cycle arrest; response to UV; leukocyte homeostasis; transcription initiation from RNA polymerase II promoter; positive regulation of histone methylation; transcription, DNA-dependent; negative regulation of transcription factor activity; positive regulation of transforming growth factor beta receptor signaling pathway; MAPKKK cascade; negative regulation of cyclin-dependent protein kinase activity; negative regulation of organ growth; DNA repair; regulation of activin receptor signaling pathway; osteoblast development; embryonic skeletal morphogenesis; chromatin remodeling; negative regulation of telomerase activity; positive regulation of osteoblast differentiation; positive regulation of cell division; positive regulation of transcription from RNA polymerase II promoter; gene expression; brain development; negative regulation of transcription, DNA-dependent; response to DNA damage stimulus; osteoblast fate commitment Disease: Multiple Endocrine Neoplasia, Type I

Research Articles on MEN1	**1.** ATRX, DAXX or MEN1 mutant pancreatic neuroendocrine tumors are a distinct alpha-cell signature subgroup
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