PAM16 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PAM16, Blocking Peptide
Full Product Name	PAM16 Peptide - C-terminal region
Product Gene Name	PAM16 blocking peptide
Product Synonym Gene Name	CGI-136; Magmas
Sequence	NYEHLFKVND KSVGGSFYLQ SKVVRAKERL DEELKIQAQE DREKGQMPHT
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	PAM16 peptide (MBS3241564) is used for blocking the activity of PAM16 antibody (MBS3216663)
Molecular Weight	14kDa
OMIM	613320
Product Categories/Family for PAM16 blocking peptide	Peptide
Applications Tested/Suitable for PAM16 blocking peptide	Western Blot (WB)
Related Product Information for PAM16 blocking peptide	This is a synthetic peptide designed for use in combination with anti-PAM16 Antibody, made Target Description: PAM16 regulates ATP-dependent protein translocation into the mitochondrial matrix and inhibits DNAJC19 stimulation of HSPA9/Mortalin ATPase activity.
Other Notes	Small volumes of PAM16 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 PAM16 purchase	MBS3241564 is a blocking peptide targeting PAM16. Also known as PAM16 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAM16. It may not necessarily be applicable to this product.

NCBI GI #	27363461
NCBI GeneID	51025
NCBI Accession #	NP_057153
UniProt Primary Accession #	Q9Y3D7
UniProt Related Accession #	Q9Y3D7
GenBank Nucleotide #	NM_016069
NCBI Official Synonym Full Names	presequence translocase associated motor 16
NCBI Official Symbol	PAM16

NCBI Official Synonym Symbols	TIM16; MAGMAS; SMDMDM; TIMM16; CGI-136
UniProt Protein Name	Mitochondrial import inner membrane translocase subunit TIM16
UniProt Synonym Protein Names	Mitochondria-associated granulocyte macrophage CSF-signaling molecule; Presequence translocated-associated motor subunit PAM16
Protein Family	Mitochondrial import inner membrane translocase
UniProt Gene Name	PAM16
UniProt Synonym Gene Names	MAGMAS; TIM16; TIMM16
UniProt Entry Name	TIM16_HUMAN
NCBI Protein Information	mitochondrial import inner membrane translocase subunit TIM16
NCBI Summary for PAM16	This gene encodes a mitochondrial protein involved in granulocyte-macrophage colony-stimulating factor (GM-CSF) signaling. This protein also plays a role in the import of nuclear-encoded mitochondrial proteins into the mitochondrial matrix and may be important in reactive oxygen species (ROS) homeostasis. Mutations in this gene cause Megarbane-Dagher-Melike type spondylometaphyseal dysplasia, an early lethal skeletal dysplasia characterized by short stature, developmental delay and other skeletal abnormalities. [provided by RefSeq, May 2017]
UniProt Comments for PAM16	Magmas: Regulates ATP-dependent protein translocation into the mitochondrial matrix. Inhibits DNAJC19 stimulation of HSPA9/Mortalin ATPase activity. Belongs to the TIM16/PAM16 family. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: mitochondrial matrix; protein complex Molecular Function: protein binding Biological Process: cellular protein metabolic process; negative regulation of ATPase activity; ossification; protein import into mitochondrial matrix; protein targeting to mitochondrion Disease: Spondylometaphyseal Dysplasia, Megarbane-dagher-melki Type
Research Articles on PAM16	**1.** Both DnaJC15 and DnaJC19 formed two distinct subcomplexes with Magmas at the import channel.
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