HSP90 Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	HSP90 (HSP90AA1), Blocking Peptide
Full Product Name	HSP90 Blocking Peptide (N-term)
Product Gene Name	HSP90AA1 blocking peptide
Product Synonym Gene Name	HSP90A; HSPC1; HSPCA
Product Synonym Names	Heat shock protein HSP 90-alpha; Heat shock 86 kDa; HSP 86; HSP86; Lipopolysaccharide-associated protein 2; LAP-2; LPS-associated protein 2; Renal carcinoma antigen NY-REN-38; HSP90AA1; HSP90A; HSPC1; HSPCA
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 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 57-69 of HUMAN HSP90AA1
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	HSP90 peptide (MBS9229285) is used for blocking the activity of HSP90 antibody (MBS9208089)
Molecular Weight	98,161 Da
OMIM	140571
Cellular Location	Cytoplasm. Melanosome. Cell membrane. Note: Identified by mass spectrometry in melanosome fractions from stage I to stage IV
Related Product Information for HSP90AA1 blocking peptide	Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes.
Other Notes	Small volumes of HSP90AA1 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 HSP90AA1 purchase	MBS9229285 is a blocking peptide targeting HSP90AA1. Also known as HSP90 Blocking Peptide (N-term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSP90AA1. It may not necessarily be applicable to this product.

NCBI GI #	92090606
NCBI GeneID	3320
NCBI Accession #	P07900.5
UniProt Primary Accession #	P07900
UniProt Secondary Accession #	Q2PP14; Q5CAQ6; Q5CAQ7; Q9BVQ5; A8K500; B3KPJ9
UniProt Related Accession #	P07900
NCBI Official Full Name	Heat shock protein HSP 90-alpha
NCBI Official Synonym Full Names	heat shock protein 90 alpha family class A member 1

NCBI Official Symbol	HSP90AA1
NCBI Official Synonym Symbols	EL52; HSPN; LAP2; HSP86; HSPC1; HSPCA; Hsp89; Hsp90; LAP-2; HSP89A; HSP90A; HSP90N; HSPCAL1; HSPCAL4; HEL-S-65p
UniProt Protein Name	Heat shock protein HSP 90-alpha
UniProt Synonym Protein Names	Heat shock 86 kDa; HSP 86; HSP86; Lipopolysaccharide-associated protein 2; LAP-2; LPS-associated protein 2; Renal carcinoma antigen NY-REN-38
Protein Family	Heat shock protein
UniProt Gene Name	HSP90AA1
UniProt Synonym Gene Names	HSP90A; HSPC1; HSPCA; HSP 86; HSP86; LAP-2; LPS-associated protein 2
UniProt Entry Name	HS90A_HUMAN
NCBI Protein Information	heat shock protein HSP 90-alpha
NCBI Summary for HSP90AA1	The protein encoded by this gene is an inducible molecular chaperone that functions as a homodimer. The encoded protein aids in the proper folding of specific target proteins by use of an ATPase activity that is modulated by co-chaperones. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
UniProt Comments for HSP90AA1	Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity which is essential for its chaperone activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed:11274138, PubMed:11276205, PubMed:15577939, PubMed:15937123, PubMed:27353360).
Research Articles on HSP90AA1	**1.** In conjunction with HSP90, the cytoplasmic USP19 may play a key role in triage decision for the disease-related polyQ-expanded substrates, suggesting a function of USP19 in quality control of misfolded proteins by regulating their protein levels
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