HNRNPU Blocking Peptide (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	HNRNPU, Blocking Peptide
Full Product Name	HNRNPU Blocking Peptide (C-term)
Product Gene Name	HNRNPU blocking peptide
Product Synonym Gene Name	HNRPU; SAFA; U21.1
Product Synonym Names	Heterogeneous nuclear ribonucleoprotein U; hnRNP U; Scaffold attachment factor A; SAF-A; p120; pp120; HNRNPU; HNRPU; SAFA; U211
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 766-780 of HUMAN HNRNPU
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	HNRNPU peptide (MBS9229831) is used for blocking the activity of HNRNPU antibody (MBS9210867)
Molecular Weight	88,980 Da
OMIM	602869
Cellular Location	Nucleus. Cytoplasm. Cell surface. Note: Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Component of ribonucleosomes.
Related Product Information for HNRNPU blocking peptide	Component of the CRD-mediated complex that promotes MYC mRNA stabilization. Binds to pre-mRNA. Has high affinity for scaffold-attached region (SAR) DNA. Binds to double- and single- stranded DNA and RNA. Plays a role in the circadian regulation of the core clock component ARNTL/BMAL1 transcription (By similarity).
Other Notes	Small volumes of HNRNPU 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 HNRNPU purchase	MBS9229831 is a blocking peptide targeting HNRNPU. Also known as HNRNPU Blocking Peptide (C-term).

ADDITIONAL DETAILS

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

NCBI GI #	254763463
NCBI GeneID	3192
NCBI Accession #	Q00839.6
UniProt Primary Accession #	Q00839
UniProt Secondary Accession #	O75507; Q8N174; Q96HY9; Q9BQ09
UniProt Related Accession #	Q00839
NCBI Official Full Name	Heterogeneous nuclear ribonucleoprotein U
NCBI Official Synonym Full Names	heterogeneous nuclear ribonucleoprotein U
NCBI Official Symbol	HNRNPU

NCBI Official Synonym Symbols	SAFA; HNRPU; SAF-A; U21.1; hnRNP U; HNRNPU-AS1
UniProt Protein Name	Heterogeneous nuclear ribonucleoprotein U
UniProt Synonym Protein Names	Scaffold attachment factor A; SAF-A; p120; pp120
Protein Family	Heterogeneous nuclear ribonucleoprotein
UniProt Gene Name	HNRNPU
UniProt Synonym Gene Names	HNRPU; SAFA; U21.1; hnRNP U; SAF-A
UniProt Entry Name	HNRPU_HUMAN
NCBI Protein Information	heterogeneous nuclear ribonucleoprotein U
NCBI Summary for HNRNPU	This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they form complexes with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene contains a RNA binding domain and scaffold-associated region (SAR)-specific bipartite DNA-binding domain. This protein is also thought to be involved in the packaging of hnRNA into large ribonucleoprotein complexes. During apoptosis, this protein is cleaved in a caspase-dependent way. Cleavage occurs at the SALD site, resulting in a loss of DNA-binding activity and a concomitant detachment of this protein from nuclear structural sites. But this cleavage does not affect the function of the encoded protein in RNA metabolism. At least two alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for HNRNPU	hnRNP U: Component of the CRD-mediated complex that promotes MYC mRNA stabilization. Binds to pre-mRNA. Has high affinity for scaffold-attached region (SAR) DNA. Binds to double- and single- stranded DNA and RNA. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Spliceosome; RNA-binding; Nuclear receptor co-regulator; RNA splicing Chromosomal Location of Human Ortholog: 1q44 Cellular Component: membrane; nucleoplasm; nucleus; ribonucleoprotein complex; telomerase holoenzyme complex Molecular Function: DNA binding; protein binding; RNA binding Biological Process: circadian regulation of gene expression; gene expression; negative regulation of telomere maintenance via telomerase; nuclear mRNA splicing, via spliceosome; osteoblast differentiation; RNA processing
Research Articles on HNRNPU	**1.** Nuclear TDP-43 becomes neurotoxic by escaping from the inhibitory regulation by hnRNP-U or hnRNP-A2. hnRNP-U inhibits TDP-43-mediated alterations in splicing of POLDIP3 mRNA.
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