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

PRODUCT OVERVIEW

Product Name	DNase II (DNASE2), Blocking Peptide
Full Product Name	DNase II Blocking Peptide
Product Gene Name	DNASE2 blocking peptide
Product Synonym Gene Name	DNASE2A, DNL2
Product Synonym Names	Acid DNase; Deoxyribonuclease 2 alpha; Deoxyribonuclease 2; Deoxyribonuclease II alpha; Deoxyribonuclease II; Deoxyribonuclease II lysosomal; Deoxyribonuclease-2-alpha; Deoxyribonuclease2; DeoxyribonucleaseII; DNASE 2; DNASE 2A; DNase II alpha; DNase II lysosomal; DNASE2; DNASE2A; DNaseII; DNL 2; DNL; DNL2; DNS2A_HUMAN; Lysosomal DNase II; R31240 2; R31240_2
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	DNase II peptide (MBS9622062) is used for blocking the activity of DNase II antibody (MBS9612118)
Molecular Weight	Aprox: 40 kDa
OMIM	126350
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 DNASE2 blocking peptide	Blocking/Control
Related Product Information for DNASE2 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 DNASE2 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 DNASE2 purchase	MBS9622062 is a blocking peptide targeting DNASE2. Also known as DNase II Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNASE2. It may not necessarily be applicable to this product.

NCBI GI #	2921838
NCBI GeneID	1777
NCBI Accession #	AF047016

UniProt Primary Accession #	O00115
UniProt Secondary Accession #	O43910; B2RD06; B7Z4K6
UniProt Related Accession #	O00115
NCBI Official Full Name	Homo sapiens deoxyribonuclease II alpha mRNA, complete cds
NCBI Official Synonym Full Names	deoxyribonuclease II, lysosomal
NCBI Official Symbol	DNASE2
NCBI Official Synonym Symbols	DNL; DNL2; DNASE2A
UniProt Protein Name	Deoxyribonuclease-2-alpha
UniProt Synonym Protein Names	Acid DNase; Deoxyribonuclease II alpha; DNase II alpha; Lysosomal DNase II; R31240_2
Protein Family	Deoxyribonuclease
UniProt Gene Name	DNASE2
UniProt Synonym Gene Names	DNASE2A; DNL2; DNase II alpha
UniProt Entry Name	DNS2A_HUMAN
NCBI Protein Information	deoxyribonuclease-2-alpha; R31240_2; acid DNase; DNase II alpha; lysosomal DNase II; DNase II, lysosomal; deoxyribonuclease II alpha
NCBI Summary for DNASE2	This gene encodes a member of the DNase family. The protein, located in the lysosome, hydrolyzes DNA under acidic conditions and mediates the breakdown of DNA during erythropoiesis and apoptosis. Two codominant alleles have been characterized, DNASE2*L (low activity) and DNASE2*H (high activity), that differ at one nucleotide in the promoter region. The DNASE2*H allele is represented in this record. [provided by RefSeq, Jul 2008]
UniProt Comments for DNASE2	DNASE2: Hydrolyzes DNA under acidic conditions with a preference for double-stranded DNA. Plays a major role in the degradation of nuclear DNA in cellular apoptosis during development. Necessary for proper fetal development and for definitive erythropoiesis in fetal liver, where it degrades nuclear DNA expelled from erythroid precursor cells. Belongs to the DNase II family. Protein type: Deoxyribonuclease; EC 3.1.22.1 Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: lysosome; intracellular Molecular Function: DNA binding; deoxyribonuclease II activity Biological Process: erythrocyte differentiation; DNA fragmentation during apoptosis; DNA metabolic process
Research Articles on DNASE2	**1.** 15 nonsynonymous human DNase II SNPs were genotyped in three ethnic groups including 16 different populations using the PCR-restriction fragment length polymorphism technique.
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