Nucleophosmin (NPM1) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nucleophosmin (NPM1), Recombinant Protein
Full Product Name	Recombinant Bovine Nucleophosmin (NPM1)
Product Gene Name	NPM1 recombinant protein
Product Synonym Gene Name	NPM1
Sequence	MEDSMDMDMS PLRPQNYLFG CELKADRDYH FKVDNDENEH QLSLRTVSLG AGAKDELHVV EAEAMNYEGS PIKVTLATLK MSVQPTVSLG GFEITPPVVL RLKCGSGPVH ISGQHLVAVE EDAESEEEEE EEVKLLSISG KRSAPGSGSK VPQKKVKLAA DEDEDDDDDD DDDDDEDDDD DDFDEEVEEK APVKKSVRDT PAKNAQKSNQ NGKDSKPSTP RSKGQESFKK QEKTPKTPRG PSSVEDIKAK MQASIEKGGS LPKVEAKFIN YVKNCFRMTD QEAIQDLWQW RKSL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	32,703 Da
Sequence Positions	1-294, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q3T160
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NPM1 recombinant protein	MBS1349208 is a recombinant protein targeting NPM1. Also known as Recombinant Bovine Nucleophosmin (NPM1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NPM1 recombinant protein 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPM1. It may not necessarily be applicable to this product.

NCBI GI #	78369456
NCBI GeneID	614028
NCBI Accession #	NP_001030518.1
UniProt Primary Accession #	Q3T160
UniProt Related Accession #	Q3T160

GenBank Nucleotide #	NM_001035441.2
NCBI Official Full Name	nucleophosmin
NCBI Official Symbol	NPM1
UniProt Protein Name	Nucleophosmin
Protein Family	Nucleophosmin
UniProt Gene Name	NPM1
UniProt Synonym Gene Names	NPM
NCBI Protein Information	nucleophosmin
UniProt Comments for NPM1	Involved in diverse cellular processes such as ribosome biogenesis, centrosome duplication, protein chaperoning, histone assembly, cell proliferation, and regulation of tumor suppressors p53/TP53 and ARF. Binds ribosome presumably to drive ribosome nuclear export. Associated with nucleolar ribonucleoprotein structures and bind single-stranded nucleic acids. Acts as a chaperonin for the core histones H3, H2B and H4. Stimulates APEX1 endonuclease activity on apurinic/apyrimidinic (AP) double-stranded DNA but inhibits APEX1 endonuclease activity on AP single-stranded RNA. May exert a control of APEX1 endonuclease activity within nucleoli devoted to repair AP on rDNA and the removal of oxidized rRNA molecules. In concert with BRCA2, regulates centrosome duplication. Regulates centriole duplication: phosphorylation by PLK2 is able to trigger centriole replication. Negatively regulates the activation of EIF2AK2/PKR and suppresses apoptosis through inhibition of EIF2AK2/PKR autophosphorylation. Antagonizes the inhibitory effect of ATF5 on cell proliferation and relieves ATF5-induced G2/M blockade. In complex with MYC enhances the transcription of MYC target genes.
Research Articles on NPM1	**1.** Results suggest that some polymorphisms in NPM1 are associated with body weight at some ages and may be used as candidates for marker-assisted selection and management in beef cattle breeding programmes.
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