Cyclin-Dependent Kinase 12 (CDK12) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cyclin-dependent kinase 12 (CDK12), Recombinant Protein
Full Product Name	Recombinant Bovine Cyclin-dependent kinase 12 (CDK12) , partial
Product Gene Name	CDK12 recombinant protein
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	140,642 Da
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 E1BB50
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CDK12 recombinant protein	MBS1236109 is a recombinant protein targeting CDK12. Also known as Recombinant Bovine Cyclin-dependent kinase 12 (CDK12) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CDK12 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 CDK12. It may not necessarily be applicable to this product.

NCBI GI #	327507692
NCBI GeneID	511513
NCBI Accession #	E1BB50.1
UniProt Primary Accession #	E1BB50
UniProt Related Accession #	E1BB50
NCBI Official Full Name	Cyclin-dependent kinase 12
NCBI Official Synonym Full Names	cyclin dependent kinase 12
NCBI Official Symbol	CDK12
NCBI Official Synonym Symbols	CRKRS
UniProt Protein Name	Cyclin-dependent kinase 12

UniProt Synonym Protein Names	Cell division protein kinase 12
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDK12
NCBI Protein Information	cyclin-dependent kinase 12
UniProt Comments for CDK12	Cyclin-dependent kinase that phosphorylates the C-terminal domain (CTD) of the large subunit of RNA polymerase II (POLR2A), thereby acting as a key regulator of transcription elongation. Regulates the expression of genes involved in DNA repair and is required for the maintenance of genomic stability. Preferentially phosphorylates 'Ser-5' in CTD repeats that are already phosphorylated at 'Ser-7', but can also phosphorylate 'Ser-2'. Required for RNA splicing, possibly by phosphorylating SRSF1/SF2. Involved in regulation of MAP kinase activity, possibly leading to affect the response to estrogen inhibitors ().
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