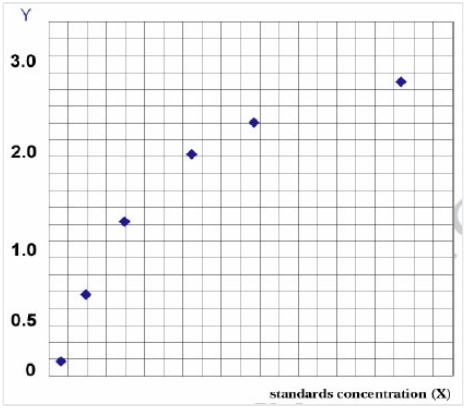
Cyclin Dependent Kinase 7 (CDK 7) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclin Dependent Kinase 7 (CDK 7), ELISA Kit
Full Product Name	Human Cyclin Dependent Kinase 7 ELISA Kit
Product Gene Name	CDK 7 elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	5.0-100 U/L
Sensitivity	1.0U/L
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	39,038 Da
OMIM	601955
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Highest Standards	100 U/L
Concentration of Standards	Concentration of Standards||0,5,10,25,50,100 U/L
Product Categories/Family for CDK 7 elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CDK 7 elisa kit	MBS732109 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin Dependent Kinase 7 (CDK 7) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CDK 7. The ELISA analytical biochemical technique of the MBS732109 kit is based on CDK 7 antibody-CDK 7 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CDK 7 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CDK 7. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CDK 7 elisa kit 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.



Typical Testing Data/Standard Curve (for reference only) of CDK 7 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK 7. It may not necessarily be applicable to this product.

NCBI GI #	4502743
NCBI GeneID	1022
NCBI Accession #	NP_001790.1
UniProt Secondary Accession #	Q9BS60; Q9UE19
UniProt Related Accession #	P50613
GenBank Nucleotide #	NM_001799.3
NCBI Official Full Name	cyclin-dependent kinase 7
NCBI Official Synonym Full Names	cyclin-dependent kinase 7
NCBI Official Symbol	CDK7
NCBI Official Synonym Symbols	CAK1; HCAK; MO15; STK1; CDKN7; p39MO15
UniProt Protein Name	Cyclin-dependent kinase 7
UniProt Synonym Protein Names	39 kDa protein kinase; p39 Mo15; CDK-activating kinase 1; Cell division protein kinase 7; Serine/threonine-protein kinase 1; TFIIH basal transcription factor complex kinase subunit
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDK7
UniProt Synonym Gene Names	CAK; CAK1; CDKN7; MO15; STK1; p39 Mo15
UniProt Entry Name	CDK7_HUMAN
NCBI Protein Information	cyclin-dependent kinase 7; CAK; p39 Mo15; protein kinase; 39 KDa protein kinase; kinase subunit of CAK; CDK-activating kinase 1; serine/threonine kinase stk1; cell division protein kinase 7; serine/threonine protein kinase 1; serine/threonine-protein kinase 1; serine/threonine protein kinase MO15; homolog of Xenopus MO15 Cdk-activating kinase; TFIIH basal transcription factor complex kinase subunit; cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase)
NCBI Summary for CDK 7	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe cdc2, and are known to be important regulators of cell cycle progression. This protein forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIH, that is involved in transcription initiation and DNA repair. This protein is thought to serve as a direct link between the regulation of transcription and the cell cycle. [provided by RefSeq, Jul 2008]

UniProt Comments for CDK 7	CDK7: a protein kinase of the CDK family. Forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). Activates the cyclin-associated kinases CDK1, -2, -4 and -6. An essential component of the transcription factor TFIIH, that is involved in transcription initiation and DNA repair. Serves as a direct link between the regulation of transcription and the cell cycle. Phosphorylates and activates RNA polymerase II, allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle. Protein type: EC 2.7.11.22; Cell cycle regulation; Kinase, protein; EC 2.7.11.23; Nuclear receptor co-regulator; Protein kinase, CMGC; Protein kinase, Ser/Thr (non-receptor); CMGC group; CDK family; CDK7 subfamily; CDK/CDK7 subfamily Chromosomal Location of Human Ortholog: 5q12.1 Cellular Component: nucleoplasm; holo TFIIH complex; mitochondrion; perinuclear region of cytoplasm; cytoplasm; nucleus Molecular Function: protein C-terminus binding; RNA polymerase subunit kinase activity; DNA-dependent ATPase activity; protein binding; androgen receptor binding; cyclin-dependent protein kinase activity; transcription coactivator activity; ATP binding; protein kinase activity Biological Process: transcription from RNA polymerase II promoter; viral reproduction; positive regulation of viral transcription; positive regulation of transcription, DNA-dependent; regulation of gene expression, epigenetic; protein amino acid phosphorylation; mRNA capping; negative regulation of gene expression, epigenetic; transcription-coupled nucleotide-excision repair; nucleotide-excision repair, DNA damage removal; G2/M transition of mitotic cell cycle; cell cycle arrest; transcription initiation from RNA polymerase II promoter; transcription from RNA polymerase I promoter; RNA elongation from RNA polymerase I promoter; DNA repair; termination of RNA polymerase I transcription; cell proliferation; nucleotide-excision repair; cell division; RNA elongation from RNA polymerase II promoter; androgen receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; gene expression; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; transcription initiation from RNA polymerase I promoter; G1/S transition of mitotic cell cycle
Research Articles on CDK 7	**1.** Data indicate that TG02 blocked signaling by CDKs 1, 2, 7, and 9 and ERK5, leading to potent and highly consistent antimyeloma activity.
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