

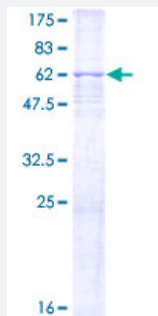
Full-Length

CDK7 (Human) Recombinant Protein (P01)

Catalog # H00001022-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CDK7 full-length ORF (AAH00834.1, 1 a.a. - 346 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MALDVKSRAKRYEKLDLFLGEGQFATVYKARDKNTNQVAIKKIKLGHRSEAKDGINRTALREIKLLQ
ELSHPNIIIGLLDAFGHKSNSLVDFMETDLEVIKDNSLVLTTPSHIKAYMLMTLQGLEYLHQHWILHR
DLKPNNLLLDENGVLKLADFGGLAKSFGSPNRAYTHQVVTRWYRAPELLFGARMYGVGVDMWAV
GCILAEALLRVPFLPGDSDLQDLTRIFETLGTPTTEEQWPDMSLPDYVTFKSFPGLHHIFSAAGD
DLLDLIQGLFLFNPCARITATQALKMKYFSNRPGPTPGCQLPRPNCPVETLKEQSNPALAIKRKRT
EALEQGGLPKKLIF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.58

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CDK7

Entrez GeneID [1022](#)

GeneBank Accession# [BC000834](#)

Protein Accession# [AAH00834.1](#)

Gene Name CDK7

Gene Alias CAK1, CDKN7, MO15, STK1, p39MO15

Gene Description cyclin-dependent kinase 7

Omim ID [601955](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations 39 KDa protein kinase|Cdk-activating kinase|cell division protein kinase 7|cyclin-dependent kinase 7 (MO15 homolog, *Xenopus laevis*, cdk-activating kinase)|homolog of *Xenopus* MO15 Cdk-activating kinase|kinase subunit of CAK|serine/threonine kinase stk1|ser

Pathway

- [Cell cycle](#)
- [Nucleotide excision repair](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Multiple Sclerosis](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)