



# Recombinant Mouse Cyclin-dependent kinase 7 (Cdk7)

<b>Product Code</b>	CSB-EP005075MO-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	Q03147
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>AVDVKSRAK RYEKLDLFLGE GQFATVYKAR DKNTNQIVAI KKIKLGHRSE            AKDGINRTAL REIKLLQELS HPNIIGLLDA FGHKSNISLV FDFMETDLEV            IIKDNSLVLT PSHIKAYMLM TLQGLEYLHQ HWILHRDLKP NNLLLDENGV            LKLADFGLAK SFGSPNRAYT HQVVTRWYRA PELLFGARMY            GVGVDMWAVG CILAEALLRV PFLPGDSDLQ QLTRIFETLG TPTEEQWPDM            CSLPDYVTFK SFPGVPLQHI FIAAGDDLLE LIQGLFLFNP CTRTTASQAL            KTKYFSNRPG PTPGCQLPRP NCPVEALKEP ANPTVATKRK RAEALEQGIL            PKKLIF</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Cdk7
<b>Protein Names</b>	<p>Recommended name: Cyclin-dependent kinase 7 EC= 2.7.11.22 EC= 2.7.11.23            Alternative name(s): 39 kDa protein kinase Short name= P39 Mo15 CDK-            activating kinase CR4 protein kinase Short name= CRK4 Cell division</p>
<b>Expression Region</b>	2-346
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	<p>This protein is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of <i>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> 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.</p>
<b>Reconstitution</b>	<p>We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.</p>



## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.