



# Recombinant Cat Cyclin-dependent kinase inhibitor 1 (CDKN1A)

<b>Product Code</b>	CSB-EP005086CA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O19002
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Felis catus (Cat) (Felis silvestris catus)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	SEPSRDAHQ IPHGSKACRR LFGPVDSEQL RRDCDALMAG CVQEARERWN FDFVTETPLE GDFAWERVWG LGLPKLYLPA GPRGGRDDLGGGKRPSTSST LLPGTAREDH LDLSLSCTLM PHSPERPEAS PGAPGTSQGR KRRQTSMTDF YHSKRRLIFS KRKP
<b>Source</b>	E.coli
<b>Target Names</b>	CDKN1A
<b>Protein Names</b>	Recommended name: Cyclin-dependent kinase inhibitor 1 Alternative name(s): CDK-interacting protein 1 p21
<b>Expression Region</b>	2-164
<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>	This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Two alternatively spliced variants, which encode an identical protein, have been reported.
<b>Reconstitution</b>	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.



## 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.