



Recombinant Rat G1/S-specific cyclin-D3 (Ccnd3)

Product Code	CSB-EP004814RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P48961
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MELLCCEGTR LAPRAGPDPR LLGDQRVLQS LLRLEERYVP RGSYFQCVQK EIKPHMRKML AYWMLEVCEE QRCEEDVFPL AMNYLDRYLS CVPTRKAQLQ LLGTVCLLLA SKLRETTPLT IEKLCIYTDQ AMAPWQLREW EVLVLGKCLKW DLAAVIAHDF LALILHRLSL PSDRQALVKK HAQTFALCA TDYTFAMYPP SMIATGSIGA AVLGLGACSM SADELTELLA GITGTEVDCL RACQEQQIEA ALRESLREAA QTAPSPVPKA PGGSSSQGPS QTSTPTDVTA IHL
Source	E.coli
Target Names	Ccnd3
Protein Names	Recommended name: G1/S-specific cyclin-D3
Expression Region	1-293
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This protein belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene.
Reconstitution	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.