



Recombinant Rat G1/S-specific cyclin-D2 (Ccnd2)

Product Code	CSB-EP004812RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	Q04827
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MELLCCEVDP VRRAVPDRNL LEDRVLQNL TIEERYLPQC SYFKCVQKDI QPYMRMVAT WMLEVCEEQK CEEVFPLAM NYLDRFLAGV PTPKTHLQLL GAVCMFLASK LKETIPLTAE KLCIYDNSV KPQELLEWEL VVLGKWKWNL AAVTPHDFIE HILRKLPPQK EKLSLIRKHA QTFIALCATD FKFAMYPPSM IATGSVGA AI CGLQQDEEVN ALTCDALTEL LTKITHDVD CLKACQEIE AVLLNSLQQF RQEQHNGSKS VEDPDQATTP TDVRDVL
Source	E.coli
Target Names	Ccnd2
Protein Names	Recommended name: G1/S-specific cyclin-D2 Alternative name(s): Vin-1 proto-oncogene
Expression Region	1-288
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. Knockout studies of the homologous gene in mouse suggest the essential roles of this gene in ovarian granulosa and germ cell proliferation. High level expression of this gene was observed in ovarian and testicular tumors.
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.