



Recombinant Human G1/S-specific cyclin-D1 (CCND1)

Product Code	CSB-EP004811HU
Relevance	Regulatory component of the cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner.
Abbreviation	Recombinant Human CCND1 protein
Storage	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.
Uniprot No.	P24385
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVL PSMRKIVATWMLEVCEEQKCEEEVFLAMNYLDRFLSLEPVKKSRLQLLGATC MFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLLNVNKLKWNLAAMTPHDFI EHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVAQGL NLRSPNNFLSYRRLTRFLSRVIKCDPDCLRACQEQIEALLESSLRQAQQNMDP KAAEEEEEEEEVDLACTPTDVRDVI
Research Area	Cell Cycle
Source	E.coli
Target Names	CCND1
Expression Region	1-295aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	43.4 kDa

