

32-2957: CDK2 Recombinant Protein

Alternative Name : Cyclin-dependent kinase 2, Cell division protein kinase 2, p33 protein kinase, CDK2, CDKN2, p33(CDK2).

Description

Source : Escherichia Coli. CDK2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 306 amino acids (1-298 a.a.) and having a molecular mass of 35kDa. CDK2 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques. Cyclin-dependent kinase 2 (CDK2) belongs the Ser/Thr protein kinase family. CDK2 is highly parallel to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. CDK2 is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is limited to the G1-S phase, and is vital for cell cycle G1/S phase transition. The CDK2 protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). CDK2 activity is also regulated by protein phosphorylation.

Product Info

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| Amount : | 10 µg |
| Purification : | Greater than 95.0% as determined by SDS-PAGE. |
| Content : | CDK2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT. |
| Storage condition : | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles. |
| Amino Acid : | MENFQKVEKI GEGTYGVVYK ARNKLTGEVV ALKKIRLDTE TEGVPSTAIR EISLLKELNH PNIVKLLDVI HTENKLYLVF EFLHQDLKKF MDASALTGIP LPLIKSYLFQ LLQGLAFCHS HRVLHRDLKP QNLLINTEGA IKLADFGGLAR AFGVPVRTYT HEVVTWLYRA PEILLGCKYY STAVDIWSLG CIFAEMVTRR ALFPGDSEID QLFRIERTLG TPDEVVWPGV TSMPDYKPSF PKWARQDFSK VVPLDEDGR SLLSQMLHYD PNKRISAKAA LAHPFFQDVT KPVPHLRLLLE HHHHHH. |

