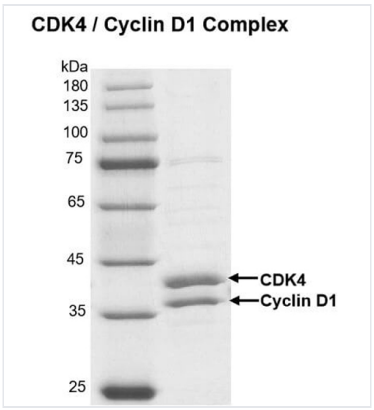
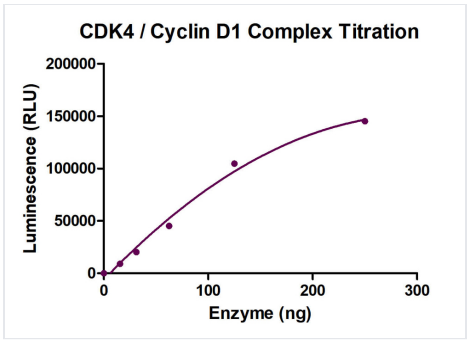
CDK4 / Cyclin D1 (CDK4) Recombinant Protein

PRODUCT OVERVIEW

Product Name	CDK4 / Cyclin D1, Recombinant Protein
Full Product Name	Recombinant CDK4 / Cyclin D1 Complex
Product Gene Name	CDK4 recombinant protein
Host	Baculovirus
Form/Format	Recombinant CDK4 / Cyclin D1 Complex is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Source	Human
Additive	Glycerol
Additive Amount	20%
Product Categories/Family for CDK4 recombinant protein	Kinase, Transcription
Application Notes for CDK4 recombinant protein	This product was manufactured as described in description. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.
Related Product Information for CDK4 recombinant protein	Description: Recombinant CDK4 / Cyclin D1 Complex that includes full-length human CDK4 protein (accession number NP_000066.1) with an N-terminal His tag and full-length human Cyclin D1 protein (accession number NP_444284.1) with an C-terminal FLAG tag was expressed in Hi5 cells. The molecular weights of CDK4 and Cyclin D1 are 36.83 kDa and 35.42 kDa, respectively. Background: Cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes 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 mitogenenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.
Other Notes	Small volumes of CDK4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDK4 purchase	MBS389781 is a recombinant protein targeting CDK4. Also known as Recombinant CDK4 / Cyclin D1 Complex. Host: Baculovirus.



SDS-Page of CDK4 recombinant protein
Recombinant CDK4/Cyclin D1 protein gel 10% SDS-PAGE Coomassie staining MW: CDK4: 36.83 kDa, Cyclin D1: 35.42 kDa Purity: >90%



ELISA (EIA) of CDK4 recombinant protein
ADP-Glo assay for CDK4 / Cyclin D1 Complex activity 0.02 ug/ul Rb (773 - 928) was incubated with different concentrations of CDK4 / Cyclin D1 Complex protein in a 5 ul reaction system containing 40 mM Tris-HCl pH 7.4, 20 mM MgCl2, 1 mM DTT, 0.1 mg/ml BSA and 10 uM ATP at 30 degree C for 1 hour, then 5 ul ADP-Glo Reagent was added. After 40 minutes of incubation at RT, 10 ul Kinase Detection Reagent was added in the system. Following 30 minutes incubation at RT, luminescence was detected with a plate reader.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK4. It may not necessarily be applicable to this product.

Protein Family	Cyclin-dependent kinase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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