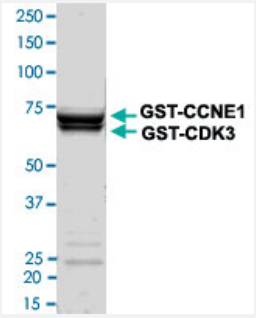
Bioactive

CDK3/CCNE1 (Human) Recombinant Protein

Catalog # P4656 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CDK3 (NM_001258, 1 a.a. - 305 a.a.) and CCNA2 (NM_001237, 1 a.a. - 395 a.a.) Recombinant protein with GST tag expressed in Sf9 cells.
Host	insect
Theoretical MW (kDa)	CDK3: 67.993 , CCNE1
Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	One-step affinity purification using GSH-agarose
Concentration	0.196 ug/uL

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Activity	112 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — CCNE1

Entrez GeneID	898
Protein Accession#	NM_001258 (Gene ID : 1018);M73812 (Gene ID : 898)
Gene Name	CCNE1
Gene Alias	CCNE
Gene Description	cyclin E1
Omim ID	123837
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins fu nction 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 co mplex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells p rogress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was foun d to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein map ped to the ATM locus), which participates in cell-cycle regulated histone gene expression and pla ys a critical role in promoting cell-cycle progression in the absence of pRB. Two alternatively splic ed transcript variants of this gene, which encode distinct isoforms, have been described. Two add itional splice variants were reported but detailed nucleotide sequence information is not yet availa ble. [provided by RefSeq
Other Designations	cyclin Es|cyclin Et

Gene Info — CDK3

Entrez GeneID	1018
Protein Accession#	NM_001258 (Gene ID : 1018);M73812 (Gene ID : 898)
Gene Name	CDK3
Gene Alias	-
Gene Description	cyclin-dependent kinase 3
Omim ID	123828
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the cyclin-dependent protein kinase family. The protein promote s entry into S phase, in part by activating members of the E2F family of transcription factors. The protein also associates with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0. [provided by RefSeq
Other Designations	-

Pathway

- Cell cycle
- p53 signaling pathway
- Pathways in cancer

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- Prostate cancer
- Small cell lung cancer

Disease

- Adenocarcinoma
- Breast cancer
- Breast Neoplasms
- Disease Progression
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Neoplasm Invasiveness
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Urinary Bladder Neoplasms

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