Cyclin E Protein, Human (SF9, His-GST)

Cat. No.:	HY-P72963
Synonyms:	CCNE; CCNE1; CCNEcyclin Es; Cyclin E1; G1/S-specific cyclin-E1
Species:	Human
Source:	Sf9 insect cells
Accession:	P24864 (M1-A410)
Gene ID:	898
Molecular Weight:	Approximately 70 kDa

PROPERTIES

AA Sequence	M P R E R R E R D A K E R D T M K E D G G A E F S A R S R K R K A N V T V F L Q D P D E E M A K I D R T A R D Q C G S Q P W D N N A V C A D P C S L I P T P D K E D D D R V Y P N S T C K P R I I A P S R G S P L P V L S W A N R E E V W K I M L N K E K T Y L R D Q H F L E Q H P L L Q P K M R A I L L D W L M E V C E V Y K L H R E T F Y L A Q D F F D R Y M A T Q E N V V K T L L Q L I G I S S L F I A A K L E E I Y P P K L H Q F A Y V T D G A C S G D E I L T M E L M I M K A L K W R L S P L T I V S W L N V Y M Q V A Y L N D L H E V L L P Q Y P Q Q I F I Q I A E L L D L C V L D V D C L E F P Y G I L A A S A L Y H F S S S E L M Q K V S G Y Q W C D I E N C V K W M V P F A M V I R E T G S S K L K H F R G V A D E D A H N I Q T H R D S L D L L D K A R A K K A M L S E Q N R A S P L P S G L L T P P Q S G K K Q S S G P E M A
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, 1 mM GSH, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Cyclin E, an integral protein in the intricate regulation of the cell cycle, plays a pivotal role in governing the transition from

the G1 phase to the S phase. Through its interaction with the CDK2 protein kinase, Cyclin E forms a dynamic serine/threonine kinase holoenzyme complex, with the cyclin subunit conferring substrate specificity to this crucial enzymatic assembly. Cyclin E is part of various complexes, including those involving CDK2, CABLES1, and CCNA1, as well as a complex comprising UHRF2, CDK2, and CCNE1. The interaction with UHRF2 leads to the ubiquitination of Cyclin E independently of its phosphorylation status, showcasing the intricate regulatory mechanisms at play. Additionally, Cyclin E engages in interactions with INCA1, further contributing to its multifaceted involvement in cell cycle control.

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