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

Cat. No.:	HY-P72964
Synonyms:	CCNE; CCNE1; CCNEcyclin Es; Cyclin E1; G1/S-specific cyclin-E1
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q61457 (M1-E408)
Gene ID:	12447
Molecular Weight:	Approximately 75 kDa

PROPERTIES

AA Sequence	M P R E R D S T D H S N M K E E G G S D L S V R S R K R K A N V A V F L Q D P D E E I A K I D K T V K S E D S S Q P W D D N S A C V D P C S F I P T P N K E E D N E L E Y P R T A F Q P R K I R P P R A S P L P V L N W G N R E E V W R I M L N K E K T Y L R D E H F L Q R H P L L Q A R M R A V 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 S Q H N I I K T L L Q L I G I S A L F I A S 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 M M K A L K W R L S P L T I V S W L N V Y V Q V A Y V N D T G E V L M P Q Y P Q Q V F V Q I A E L L D L C V L D V G C L E F P Y G V L A A S A L Y H F S S L E L M Q K V S G Y Q W C D I E K C V K W M V P F A M V I R E M G S S K L K H F R G V P M E D S H N I Q T H T N S L D L L D K A Q A K K A I L S E Q N R I S P P P S V V L T P P P S S K K Q S S E Q E T E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM Nacl, 3 mM DTT, 0.5 mM GSH, 10% 10% Glycerol, pH 8.0. 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 indispensable player in cell cycle regulation, takes center stage in orchestrating the G1/S transition. Teaming up

with the CDK2 protein kinase, Cyclin E forms a potent serine/threonine kinase holoenzyme complex, where its cyclin subunit bestows substrate specificity upon the partnership. Notably, Cyclin E is a key constituent of a complex featuring UHRF2, CDK2, and CCNE1. Its direct interaction with UHRF2 not only ubiquitinates CCNE1 but also occurs independently of CCNE1 phosphorylation. Additionally, Cyclin E engages in a complex dance with CDK2, CABLES1, and CCNA1. The intricate interplay of Cyclin E within these complexes underscores its crucial role in the tightly regulated progression through the cell cycle.

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