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Recombinant Human CCNE1/Cyclin-E1 Protein

Catalog No. PKSH031363

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms CCNE Species Human

Expression Host Baculovirus-Insect Cells

Met1-Ala410 Sequence Accession NP_001229.1 Calculated Molecular Weight 47.2 kDa Observed molecular weight 48 kDa Tag No tag

Properties

Purity > 90 % as determined by reducing SDS-PAGE.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

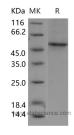
of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 20mM Tris, 300mM NaCl, 10% glycerol, pH 7.5

Reconstitution Please refer to the printed manual for detailed information.

Data



Background

Cyclin E1 is a member of the highly conserved cyclin family and belongs to the E-type cyclin that functions as a regulator of S phase entry and progression in mammalian cells. Cyclin E1 serves as regulatory subunits that bind, activate, and provide substrate for its associated cyclin-dependent kinase2 (CDK2), whose activity is essential for cell cycle G1 / S transition. Over expression of this encoding gene has been found in many tumors, which results in chromosome instability and by extension, induce tumorigenesis. This protein was also found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB. In general,

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cyclin E1, as an activator of phospho-CDK2 (pCDK2), is important for cell cycle progression and is frequently overexpressed in cancer cells.

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