

Cyclin E Recombinant Protein | CCNE1 recombinant protein

Cyclin E Protein, Mouse, Recombinant (His & GST Tag)

CATALOG #
AAA258210

HOST
Baculovirus-Insect Cells

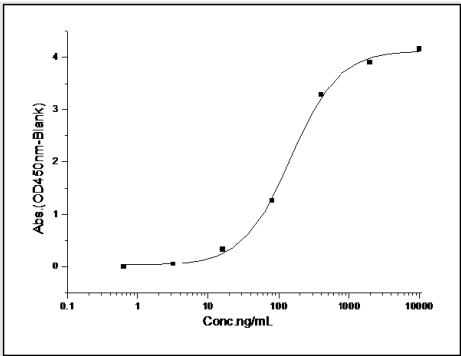
PRODUCT SYNONYMS

Cyclin E; Cyclin E Protein; Mouse; Recombinant (His & GST Tag); Mouse CCNE1/Cyclin-E1 Protein (His & GST Tag); AW538188 Protein; CycE1 Protein; cyclin E1; CCNE1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 100mM NaCl, 3mM DTT, 0.5mM GSH, 10% gly, pH8.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of Co
Sequence	Met1-Glu40 8
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Met
Tag	N-GST & His
Protein Construction	A DNA sequence encoding the mouse CCNE1 (AAH62152.1)(Met1-Glu408) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized mouse CCNE1 at 10 ug/ml (100 ul/well) can bind biotinylated human CDK4. The EC50 of biotinylated human CDK4 is 48.0-114.0 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for CCNE1 recombinant protein	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, cyclin E1, as an activator of phospho-CDK2 (pCDK2), is important for cell cycle progression and is frequently overexpressed in cancer cells.
Product Categories/Family for CCNE1 recombinant protein	p53 Pathway
References	Honda R, et al. (2005) The structure of cyclin E1/CDK2: implications for CDK2 activation and CDK2-independent roles. The EMBO Journal. 24: 452-63.Geng Y, et al. (2007) Kinase-Independent Function of Cyclin E. 25(1): 127-39.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116283967
NCBI GeneID	12447
Molecular Weight	46,986 Da
NCBI Official Full Name	Cyclin E1
NCBI Official Synonym Full Names	cyclin E1
NCBI Official Symbol	Ccne1
NCBI Official Synonym Symbols	CycE1; AW538188
NCBI Protein Information	G1/S-specific cyclin-E1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.