

Recombinant Human G1,S-specific cyclin-D3(CCND3)

Catalog No: #AP76859



Package Size: #AP76859-1 20ug #AP76859-2 100ug #AP76859-3 1mg

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Description

Product Name	Recombinant Human G1,S-specific cyclin-D3(CCND3)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-292aaSequence Info:Full Length
Accession No.	P30281
Uniprot	P30281
GeneID	896;
Calculated MW	59.5 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	MELLCCEGTRHAPRAGPDPRLLGQQRVLQSLRLLEERYVPRASYFQCVQREIKPHMRKMLAYWMLEVCEEQ RCEEEVFPLAMNYLDRYLSCVPTRKAQLQLLGAVCMMLASKLRETTPLTIEKLCIYTDHAVSPRQLRDWEVLVL GCLKWDLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFALCATDYTFAMYPPSMIATGSIGAAVQGLGACS MSGDELTELLAGITGTEVDCLRACQEQIEAALRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVTAIHL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1,S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB,E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3,CDK4,CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

References

"Full-length cDNA libraries and normalization."

Li W.B., Gruber C., Jessee J., Polayes D.

Submitted (APR-2003) Research Topic:Cell Biology

Note: This product is for in vitro research use only