

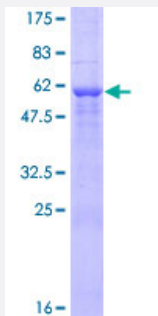
Full-Length

CCND3 (Human) Recombinant Protein (P01)

Catalog # H00000896-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CCND3 full-length ORF (NP_001751.1, 1 a.a. - 292 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MELLCCEGTRHAPRAGPDPRLLGDQQRVLQSLLRLEERYVPRASYFQCVQREIKPHMRKMLAYW
MLEVCEEQRCEEEVFPLAMNYLDRYLSCVPTRKAQLQLLGAVCMLLASKLRETTPLTIEKLCYTD
HAVSPRQLRDWEVLVLGKLKWDLA AVIAHDFLAFILHRLSLPRDRQALVKKHAQTFLALCATDYTF
AMYPSPMIATGSIGAAVQGLGACSMGDELTELLAGITGTEVDCLRACQEQIEAALRESLREASQT
SSSPAPKAPRGSSSQGPSQTSTPTDVTAIHL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

58.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CCND3

Entrez GeneID [896](#)

GeneBank Accession# [NM_001760.2](#)

Protein Accession# [NP_001751.1](#)

Gene Name CCND3

Gene Alias -

Gene Description cyclin D3

Omim ID [123834](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations D3-type cyclin|G1/S-specific cyclin D3|OTTHUMP00000016390

Pathway

- [Cell cycle](#)
- [Focal adhesion](#)
- [Jak-STAT signaling pathway](#)
- [p53 signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cerebral Amyloid Angiopathy](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neuroblastoma](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)