

Product datasheet for **AR50089PU-N**

CDKN1B / KIP1 (1-198, His-tag) Human Protein

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | CDKN1B / KIP1 (1-198, His-tag) human recombinant protein, 0.5 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | <u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MSNVRVSN GS PS LERMDARQ AEHPKPSACR NLF GPVDHEE LTRDLEKHCR DMEEASQRKW NFDFQNHKPL EGKYEWQVE KGSLPEFYR PPRPPKGACK VPAQESQDVS GSRPAAPLIG APANSEDTL VDPKTDPSDS QTGLAEQCAG IRKR PATDDS STQNKRANRT EENVSDGSPN AGSVEQTPKK PGLRRRQT |
| Tag: | His-tag |
| Predicted MW: | 24.2 kDa |
| Concentration: | lot specific |
| Purity: | >90% by SDS - PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol |
| Preparation: | Liquid purified protein |
| Protein Description: | Recombinant human CDKN1B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. |
| Storage: | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | <u>NP_004055</u> |
| Locus ID: | 1027 |
| UniProt ID: | <u>P46527</u> , <u>Q619V6</u> |
| Cytogenetics: | 12p13.1 |
| Synonyms: | CDKN4; KIP1; MEN1B; MEN4; P27KIP1 |



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Summary:

This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4). [provided by RefSeq, Apr 2014]

Protein Families:

Druggable Genome

Protein Pathways:

Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer

Product images: