

## Recombinant Human CDKN1B Protein (His Tag)

Catalog Number: PKSH032314

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

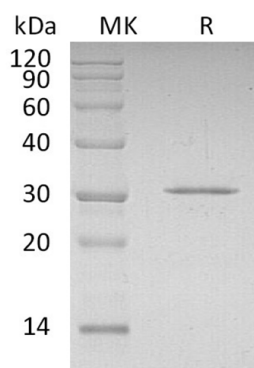
### Description

|                      |  |
|----------------------|--|
| <b>Species</b>       | Human  |
| <b>Source</b>        | E.coli-derived Human CDKN1B protein Met 1-Thr198, with an N-terminal His |
| <b>Calculated MW</b> | 24.2 kDa   |
| <b>Observed MW</b>   | 30 kDa   |
| <b>Accession</b>     | P46527   |
| <b>Bio-activity</b>  | Not validated for activity   |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | 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. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.  |
| <b>Reconstitution</b> | Please refer to the specific buffer information in the printed manual.<br>Please refer to the printed manual for detailed information.  |

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Cyclin-Dependent Kinase Inhibitor 1B (CDKN1B) is a Kinesin-related motor protein necessary for mitotic spindle assembly and chromosome segregation. CDKN1B is expressed in all tissues with highest levels observed in skeletal muscle. CDKN1B is a potent inhibitor of Cyclin E- and Cyclin A-CDK2 complexes. CDKN1B forms a complex with Cyclin Type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. In addition, CDKN1B acts as an inhibitor or an activator of Cyclin Type D-CDK4 complexes depending on its phosphorylation state and stoichiometry.

### For Research Use Only