

Recombinant Human CDKN1B Protein (His Tag)

Catalog Number: PKSH032314

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

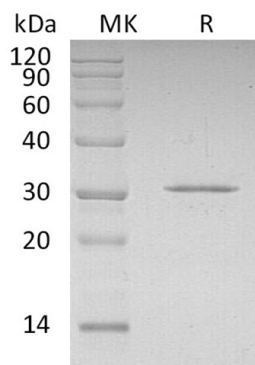
Description

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

Properties

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

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