Datasheet for ABIN1097284

CDKN1B Protein (AA 1-198) (His tag)

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Overview

Quantity:	50 µg
Target:	CDKN1B
Protein Characteristics:	AA 1-198
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDKN1B protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Cyclin-Dependent Kinase Inhibitor 1B/CDKN1B (N-6His)
Sequence:	MGSSHHHHHH SSGLVPRGSH MSNVRVSNGS PSLERMDARQ AEHPKPSACR NLFGPVDHEE LTRDLEKHCR DMEEASQRKW NFDFQNHKPL EGKYEWQEVE KGSLPEFYYR PPRPPKGACK VPAQESQDGS GSRPAAPLIG APANSEDTHL VDPKTDPSDS QTGLAEQCAG IRKRPATDDS STQNKRANRT EENVSDGSPN AGSVEQTPKK PGLRRRQT
Characteristics:	Recombinant Human Cyclin-Dependent Kinase Inhibitor 1B/CDKN1B is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Thr198) of Human CDKN1B fused with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CDKN1B
Alternative Name:	Cyclin-Dependent Kinase Inhibitor 1B (p27, Kip1) (CDKN1B Products)
Sub Type:	Fusionprotein
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 stoichometry. Alternative Names: Cyclin-Dependent Kinase Inhibitor 1B, Cyclin-Dependent Kinase Inhibitor p27, p27Kip1, CDKN1B, KIP1
Molecular Weight:	24.2 kDa
UniProt:	P46527
Pathways:	Cell Division Cycle, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Peptide Hormone Secretion, Negative Regulation of Hormone Secretion, Sensory Perception of Sound, Mitotic G1-G1/S Phases, DNA Replication, Positive Regulation of Endopeptidase Activity, Synthesis of DNA, Autophagy

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

	Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months