

Product datasheet for PH301661

p27 KIP 1 (CDKN1B) (NM_004064) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CDKN1B MS Standard C13 and N15-labeled recombinant protein (NP_004055)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201661
Predicted MW:	21.9 kDa
Protein Sequence:	>RC201661 representing NM_004064 Red=Cloning site Green=Tags(s) MSNVRVSNQSPSLERMDARQAEHPKPSACRNLFQVVDHEELTRDLEKHCRCMEEASQRKWNFDFQNHKPL EGKYEWQVEVEKGSLEPEFYRPPRPPKACKVPAQESQDVSGSRPAAPLIGAPANSEDTLHVDPKTDPSPDS QTGLAEQCAGIRKRPATDDSSSTQNKRANRTEENVSDGSPNAGSVEQTPKKPGLRRRQT TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004055
RefSeq Size:	2422
RefSeq ORF:	594
Synonyms:	CDKN4; KIP1; MEN1B; MEN4; P27KIP1
Locus ID:	1027
UniProt ID:	P46527 , Q6I9V6



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Cytogenetics: 12p13.1

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:



Coomassie blue staining of purified CDKN1B protein (Cat# [TP301661]). The protein was produced from HEK293T cells transfected with CDKN1B cDNA clone (Cat# [RC201661]) using MegaTran 2.0 (Cat# [TT210002]).