

Product datasheet for PH304895

p15 INK4b (CDKN2B) (NM_004936) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CDKN2B MS Standard C13 and N15-labeled recombinant protein (NP_004927)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204895
Predicted MW:	14.5 kDa
Protein Sequence:	>RC204895 representing NM_004936 Red=Cloning site Green=Tags(s) MREENKGMPSGGGSDEGLASAAARGLVEKVRQLLEAGADPNGVNRFGRRAIQVMMMSARVAELLLLHGA EPNCADPATLTRPVHDAAREGFLDTLVLHRAGARLDVRDAWGRLPVDLAEERGHDRVAGYLRATATGD SGPTRTRRLEQKLI 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_004927
RefSeq Size:	3878
RefSeq ORF:	414
Synonyms:	CDK4I; INK4B; MTS2; P15; p15INK4b; TP15
Locus ID:	1030
UniProt ID:	P42772 , K7PPU3
Cytogenetics:	9p21.3



[View online »](#)

Summary:

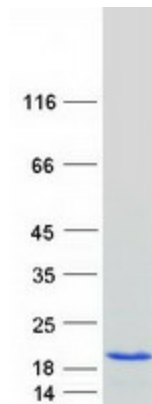
This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome

Protein Pathways:

Cell cycle, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway

Product images:

Coomassie blue staining of purified CDKN2B protein (Cat# [TP304895]). The protein was produced from HEK293T cells transfected with CDKN2B cDNA clone (Cat# [RC204895]) using MegaTran 2.0 (Cat# [TT210002]).