

## Product datasheet for **TP317024**

### p15 INK4b (CDKN2B) (NM\_078487) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (CDKN2B), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217024 representing NM_078487 <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MREENKGMPSGGGSDEGLASAAAARGLVEKVRQLLEAGADPNGVNRFGRRRAIQVAGAPGPRRQGARERG AR PRRIGAGT  <span style="color: red;">SGP</span> TRRRLE <span style="color: green;">EQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-Myc/DDK
Predicted MW:	7.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_511042</a></u>
Locus ID:	1030
UniProt ID:	<u><a href="#">P42772</a></u>


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RefSeq Size: 4001

Cytogenetics: 9p21.3

RefSeq ORF: 234

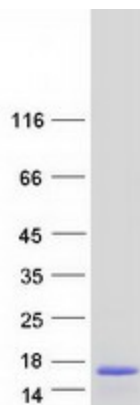
Synonyms: CDK4I; INK4B; MTS2; P15; p15INK4b; TP15

**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# TP317024). The protein was produced from HEK293T cells transfected with CDKN2B cDNA clone (Cat# [RC217024]) using MegaTran 2.0 (Cat# [TT210002]).