



CDKN2B peptide (DAG-P1003)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the CDKN2 cyclin-dependent kinase inhibitor family. Contains 4 ANK repeats.
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	CDKN2B cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) [Homo sapiens (human)]
Official Symbol	CDKN2B
Synonyms	CDKN2B; cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4); P15; MTS2; TP15; CDK4I; INK4B; p15INK4b; cyclin-dependent kinase 4 inhibitor B; MTS-2; p14-INK4b; p14_INK4B; p15-INK4b; p15_INK4B; CDK4B inhibitor; p14_CDK inhibitor; p15 CDK inhibitor; CDK inhibitory protein; multiple tumor suppressor 2; cyclin-dependent kinases 4 and 6 binding protein;

Entrez Gene ID	1030
mRNA Refseq	NM_004936.3
Protein Refseq	NP_004927.2
UniProt ID	K7PPU3
Chromosome Location	9p21
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Cellular Senescence, organism-specific biosystem; Cellular responses to stress, organism-specific biosystem; Cyclin D associated events in G1, organism-specific biosystem; Disease, organism-specific biosystem; FoxO signaling pathway, organism-specific biosystem; G1 Phase, organism-specific biosystem; G1 to S cell cycle control, organ
Function	cyclin-dependent protein serine/threonine kinase inhibitor activity; cyclin-dependent protein serine/threonine kinase inhibitor activity; protein binding; protein kinase binding;