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## Product Data Sheet

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Product Name: p16-INK4a Human, TAT

Cat. No.: GP22571

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Cyclin-dependent kinase 4 inhibitor A; CDK4I; p16-INK4; p16-INK4a; p16INK4A; CDKN-2A; CDKN2; Multiple tumor suppressor 1; MTS1; CMM2; MLM; TP16; p16(INK4); p19.		
Amino Acid Sequence	EPAAGSSMEP SADWLATAAA RGRVEEVRAL LEAGALPNAP NSYGRRPIQV MMMGSARVAE LLLLHGAEPN CADPATLTRP VHDAAREGFL DTLVVLHRAG ARLDVRDAWG RLPVDLAEEL GHRDVARYLR AAAGGTRGSN HARIDAAEGP SDIPDGGYGR KKRRQRRR.		
Solubility	It is recommended to reconstitute the lyophilized p16-INK4a in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 1xPBS, pH 7.4.		

**Introduction**

Cyclin-dependent kinase inhibitors (CDKIs) are proteins that bind to and inhibit the activity of CDKs. Two major classes of CDK inhibitors have been identified. The p16 family (p15, p16, p18 and p19) binds to and inhibits the activities of CDK4 and CDK6. The p21 family (p21, p27, p28 and p57) can bind to broad range of CDK-cyclin complexes and inhibit their activities. CDKIs are capable of suppressing growth, and several lines of evidence strongly suggest that at least some CDKIs may be tumor suppressor proteins.

**Stability**

Lyophilized p16-INK4a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution p16-INK4a should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is

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recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

p16-INK4a Human Recombinant is a single, non-glycosylated, polypeptide chain produced in E.coli, containing a total of 168 amino acids, which includes the 156 residues of full-length p16-INK4a and a 13-residue C-terminal TAT peptide (GGYGRKKRRQRRR), having a total Mw of 18kDa. p16-INK4a is purified by proprietary chromatographic techniques.

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