

p16 INK4 alpha recombinant protein

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CATALOG #
AAA75588

HOST
Escherichia Coli.

PRODUCT SYNONYMS

p16 INK4 alpha; p16 INK4 alpha protein; p INK4 alpha 16 protein; p INK4 alpha-16; p16-INK4 protein; Cyclin-dependent kinase inhibitor 2A protein; MTS-1 protein; p16INK4A protein; Cyclin-dependent kinase 4 inhibitor A protein; p16 INK-4 alpha protein; p INK4 alpha-16 protein; p INK4 alpha 16; CDK4I protein; Multiple tumor suppressor 1 protein; p16 INK4 alpha recombinant protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli.
Purity/Purification	> 95% by SDS PAGE and HPLC analysis.
Form/Format	Lyophilized from 1x PBS+1.0 mM DTT, pH 7.2. Sterile filter through a 0.2 micron filter. Reconstitute in 1 x PBS, pH 8.0 to a concentration of 0.1-1.0 mg/ml.
Sequence	Region of p16 INK4 alpha protein corresponding to amino acids MEPAAGSS MEPSADWLAT AAARGRVEEV RALLEAGALP NAPNSYGRRP IQVMMGSAR VAELLLHGA EPNCADPATL TRPVHDAARE GFLDTLVVLH RAGARLDVRD AWGRLPVDLA EELGHRDVAR YLRAAAGGTR GSNHARIDAA EGPSDIPD.
Protein Type	Recombinant
Biological Significance	p16-INK4a is a nuclear protein that regulates the cell cycle by inhibiting cyclin dependent kinase-4 (CDK4) and CDK6. p16-INK4a inhibits CDK activity by binding to the CDK molecules in a manner that interferes with their ability to interact with cyclin D. This activity has the effect of suppressing tumor formation and growth, and of inducing replicative senescence in various normal cells, including stem cells. The expression of p16-INK4a steadily increases with age and tends to accumulate in stem cell compartments. The deletion, rearrangement, or mutation of the p16-INK4a gene is frequently found in melanomas as well as in certain other types of cancer.
Contaminants	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Biohazard	Not for human use. Use normal laboratory precautions when handling reagent. For research purposes only.
Grade	Recombinant Human
Preparation and Storage	Ships ambient or refrigerated. Upon receipt store at 4°C short term, -20°C for long term. For extended storage after reconstituted, dilute in a buffer containing a carrier protein, aliquot and store at -20°C to -80°C . Avoid repeat freeze-thaws.

ADDITIONAL INFORMATION

Related Product Information for p16 INK4 alpha recombinant protein	Purified recombinant Human p16 INK4 alpha protein
Product Categories/Family for p16 INK4 alpha recombinant protein	Cell Cycle & Cell Death

NCBI AND UNIPROT INFORMATION

Molecular Weight	16.5 kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

