

TECHNICAL DATA SHEET

Recombinant Human p16-INK4a-TAT (Carrier-Free)

Catalog Number: 21-9055

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human p16-INK4a-TAT (Carrier-Free)

DESCRIPTION

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.

MOLECULAR MASS

Recombinant Human p16-INK4a-TAT expressed in E. coli is an 18.0 kDa protein containing 167 amino-acid residues, including the 155 residues of full-length p16-INK4a and a 12-residue C-terminal TAT peptide (GYGRKKRRQRRR).

AMINO ACID SEQUENCE

EPAAGSSMEP SADWLATAAA RGRVEEVRL LEAGALPNAP NSYGRRPIQV MMMGSARVAE LLLLHGAEPN CADPATLTRP VHDAAREGFL DTLVVLHRAG ARLDVRDAWG RLPVDLAEEL GHRDVARYLR AAAGGTRGSN HARIDAAEGP SDIPDGYGR KRRRQRRR

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Stem Cells & Differentiation, Cancer

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Wang L, Chen H, Yu J, Lin X, Qi J, Cui C, Xie L, Huang S. BMC Cancer. 2016 Aug 2;16:571. doi: 10.1186/s12885-016-2498-4. Roos CM, Hagler M, Zhang B, Oehler EA, Arghami A, Miller JD. Am J Physiol Heart Circ Physiol. 2013 Nov 15;305(10):H1428-39. doi: 10.1152/ajpheart.00735.2012.

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