

TECHNICAL DATA SHEET

Recombinant Human p16-INK4a (Carrier-Free)

Catalog Number: 21-9052

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human p16-INK4a (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 is a 16.5 kDa protein containing 156 amino acid residues.

AMINO ACID SEQUENCE

MEPAAGSSME PSADWLATAA ARGRVEEVRA LLEAGALPNA PNSYGRRIQ VMMMGSARVA ELLLLHGAEP NCADPATLTR PVHDAAREGF
LDTLVVLHRA GARLDVRDAW GRLPVDLAE LGHRDVARYL RAAAGGTRGS NHARIDAAEG PSDIPD

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

Ocadiz-Ruiz R, Photenhauer AL, Hayes MM, Ding L, Fearon ER, Merchant JL. Oncotarget. 2017 Oct 9;8(55):94330-94344. doi: 10.18632/oncotarget.21698. eCollection 2017 Nov 7. Yang XX, Ma M, Sang MX, Zhang XY, Liu ZK, Song H, Zhu SC. Oncol Rep. 2017 Dec 5. doi: 10.3892/or.2017.6136.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.