

TECHNICAL DATA SHEET

Recombinant Human/Mouse/Rat Activin-A (Insect Cells) (Carrier-Free)

Catalog Number: 21-9071

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human/Mouse/Rat Activin-A (Insect Cells) (Carrier-Free)

DESCRIPTION

Activin A is a TGF-beta family member that exhibits a wide range of biological activities, including regulation of cellular proliferation and differentiation, and promotion of neuronal survival. Elevated levels of Activin A in human colorectal tumors and in postmenopausal women have been implicated in colorectal and breast cancers, respectively.

MOLECULAR MASS

Human/Mouse/Rat Activin A is a 26.0 kDa disulfide-linked homodimer of two betaA chains, each containing 116 amino acid residues.

AMINO ACID SEQUENCE

GLECDGKVNI CCKKQFFVSF KDIGWNDWII APSGYHANYC EGECPSHIAG TSGSSLSFHS TVINHYRMRG HSPFANLKSC CVPTKLRPMS MLYYDDGQNI IKKDIQNMIV EECGCS

SOURCE

Hi-5 Insect cells.

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

Chicken, Dog, Frog, Human, Human + Mouse, Mouse

BIOACTIVITY

Determined by its ability to inhibit the proliferation of mouse MPC-11 cells. The expected ED50 is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10⁵ units/mg.

RESEARCH AREAS

Neurobiology, Stem Cells & Differentiation, TGF-Beta Superfamily, Angiogenesis/Cardiovascular, Apoptosis, Cancer

RECONSTITUTION

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

REFERENCES

Sternecker, J. Neural induction intermediates exhibit distinct roles of Fgf signaling. 2010. *Stem Cells*; 28(10):1772-81. Hasegawa, K.A. method for the selection of human embryonic stem cell sublines with high replating efficiency after single-cell dissociation. 2006. *Stem Cells*; 24(12):2649-60.

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.

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