

TECHNICAL DATA SHEET

Recombinant Human IGF-Binding Protein 4 (Insect Der.) (Carrier-Free)

Catalog Number: 21-9191

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IGF-Binding Protein 4 (Insect Der.) (Carrier-Free)

DESCRIPTION

IGF-BPs control the distribution, function and activity of IGFs in various cell tissues and body fluids. IGF-BP4 is the major IGF-BP produced by osteoblasts, and is found in the epidermis, ovarian follicles, and other tissues. IGF-BP4 inhibits the activity of IGF-I and IGF-II by binding in a manner that results in the formation of complexes with reduced ability to signal through cell surface IGF receptors.

MOLECULAR MASS

Recombinant Human IGF-BP4 is a 25.7 kDa protein consisting of 237 amino acid residues including, the IGF-BP domain and thyroglobulin type-I domain.

AMINO ACID SEQUENCE

DEAIHCPPCS EEKLARCRPP VGCEELVREP GCGCCATCAL GLGMPCGVYT PRCGSLRCY PPRGVEKPLH TLMHGQGVCM ELAEIEAIQE
SLQPSDKDEG DHPNNSFSPC SAHDRRCLQK HFAKIRDRST SGGKMKVNGA PREDARVPQ GSCQSELHRA LERLAASQSR THEDLYIPI
PNCDRNGNFH PKQCHPALDG QRGKCWCVDR KTGVKLPGGL EPKGELDCHQ LADSFRE

SOURCE

(BTI-Tn-5B1-4) 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

Human, Mouse

BIOACTIVITY

Determined by its ability to inhibit IGF-I induced proliferation of FDC-P1 cells.

RESEARCH AREAS

Proliferation, Apoptosis, Cancer, Diabetes/Weight Regulation

RECONSTITUTION

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

REFERENCES

Francischetti, I.M. Cyr61/CCN1 displays high-affinity binding to the somatomedin B(1-44) domain of vitronectin. 2010. PLoS ONE; 5(2):e9356. Martino, M.M. Heparin-binding domain of fibrin(ogen) binds growth factors and promotes tissue repair when incorporated within a synthetic matrix. 2013. Proceedings of the National Academy of Sciences of the USA; 110(12):4563-8.

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.