

TECHNICAL DATA SHEET

Recombinant Human IGF-Binding Protein 2 (Insect Der.) (Carrier-Free)

Catalog Number: 21-9192

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IGF-Binding Protein 2 (Insect Der.) (Carrier-Free)

DESCRIPTION

IGF-BPs controls the distribution, function and activity of IGFs in various cell tissues and body fluids. Currently, there are seven named IGF-BPs that form high affinity complexes with both IGF-I and IGF-II. IGF-BP2 is a cysteine-rich, secreted protein produced by bone cells, and is most abundant in the brain. IGF-BP2 has been shown to inhibit IGF-II action in human breast and ovarian carcinoma cells.

MOLECULAR MASS

Recombinant Human IGF-BP2 is a 31.5 kDa protein consisting of 289 amino acid residues including the IGF-BP domain and thyroglobulin type-I domain.

AMINO ACID SEQUENCE

EVLFRCPPCT PERLAACGPP PVAPPAAVAA VAGGARMPCA ELVREPGCGC CSVCARLEGE ACQVYTPRCG QGLRCYHPG SELPLQALVM
GEGTCEKRRD AEYGASPEQV ADNGDDHSEG GLVENHV DST MNMLGGGSA GRKPLKSGMK ELAVFREKVT EQHRQMGKGG KHHLGLEEPK
KLRPPPARTP CQQLDQVLE RISTMRLPDE RGPLEHLYSL HIPNCDKHGL YNLKQCKMSL NGQRGECWCV NPNTGKLIQG APTIRGDPEC
HLFYNEQQEA RGVHTQRMQ

SOURCE

(BTI-Tn-5B1-4) Hi-5 Insect cells

APPLICATIONS

Bioassay

PURITY

98 %

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

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. Haemmerle, R. Clonal Dominance With Retroviral Vector Insertions Near the ANGPT1 and ANGPT2 Genes in a Human Xenotransplant Mouse Model. 2014. Molecular Therapy - Nucleic Acids; 3:e200.

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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