

TECHNICAL DATA SHEET

Recombinant Human IGF-Binding Protein 7 (Carrier-Free)

Catalog Number: 21-9193

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IGF-Binding Protein 7 (Carrier-Free)

DESCRIPTION

IGF-BPs control 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-BP7 is expressed in a wide range of normal human tissues, and it generally shows reduced expression in cancer cell lines of prostate, breast, colon, and lung origin.

MOLECULAR MASS

Recombinant Human IGF-BP7 is a 26.4 kDa protein consisting of 256 amino acid residues.

AMINO ACID SEQUENCE

SSSDTCGPCE PASCPLPLPL GCLLGETRDA CGCCPMCARG EGEPCCGGGA GRYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR
 YPVCGS DGT YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTPP KDIWNVTGAQ VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL
 AIQTRGGPEK HEVTGWVLVS PLSKEDAGEY ECHASNSQGG ASASAKITVV DALHEIPVKK GEGAEI

SOURCE

E. coli

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

Data not available at this time.

RESEARCH AREAS

Proliferation, Apoptosis, Cancer, Diabetes/Weight Regulation

RECONSTITUTION

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

REFERENCES

Liu, Z.K. A novel role of IGFBP7 in mouse uterus: regulating uterine receptivity through Th1/Th2 lymphocyte balance and decidualization. 2012. PLoS ONE; 2012;7(9):e45224. Severino, V. Insulin-like growth factor binding proteins 4 and 7 released by senescent cells promote premature senescence in mesenchymal stem cells. 2013. Cell Death & Disease; 4:e9117.

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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