

TECHNICAL DATA SHEET

## Recombinant Human Fetuin A/AHSG (Carrier-Free)

Catalog Number: 21-9212

### RPx-Pro™ Recombinant Protein

#### PRODUCT INFORMATION

#### CONTENTS

Recombinant Human Fetuin A/AHSG (Carrier-Free)

#### DESCRIPTION

Fetuin A/AHSG is a human plasma glycoprotein belonging to the Cystatin family of protease inhibitors. It is highly expressed in embryonic cells and adult hepatocytes, and is expressed to a lesser extent in monocytes/macrophages. Recombinant Human Fetuin A is a heterodimeric protein containing a 282 amino acid A chain and a 27 amino acid B chain. The calculated molecular weight of

#### MOLECULAR MASS

Recombinant Human Fetuin A is 32.9 kDa. Due to glycosylation, recombinant Fetuin A migrates at an apparent molecular weight of 45–55 kDa by SDS-PAGE run under non-reducing conditions.

#### AMINO ACID SEQUENCE

A-Chain: APHGPGLIYR QPNCDDPETE EAALVAIDYI NQNLPGWYKH TLNQIDEVKV WPQQPSGELF EIEIDTLETT CHVLDPTPVA RCSVRQLKEH AVEGDCDFQL LKLDGKFSVY YAKCDSSPDS AEDVRKVCQD CPLLAPLNDT RVVHAAKAAL AAFNAQNNGS NFQLEEISRA QLVPLPPSTY VEFTVSGTDC VAKEATEAAK CNLLAEKQYG FCKATLSEKL GGAEVAVTCT VFQTPVTSQ PQPEGANEAV PTPVWDPDAP PSPPLGAPGL PPAGSPDSDH VL

B-Chain: TVVQPSVG AAAGPVVPPC PGRIRHFKV

#### SOURCE

HEK293 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

#### BIOACTIVITY

Determined by its ability to inhibit Cathepsin V cleavage of a fluorogenic peptide substrate Z-LR-AMC (RLUs). The expected IC50 is ≤ 100nM.

#### RESEARCH AREAS

Bones, Skeletal, Cartilage, Cancer

#### RECONSTITUTION

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

#### REFERENCES

Sargeant JA, Aithal GP, Takamura T, Misu H, Takayama H, Douglas JA, Turner MC, Stensel DJ, Nimmo MA, Webb DR, Yates T, King JA. *Appl Physiol Nutr Metab.* 2017 Dec 8. doi: 10.1139/apnm-2017-0639. Kailemia MJ, Wei W, Nguyen K, Beals E, Sawrey-Kubicek L, Rhodes C, Zhu C, Sacchi R, Zivkovic AM, Lebrilla CB. *J Proteome Res.* 2017 Dec 7. doi: 10.1021/acs.jproteome.7b00604.

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.