

TECHNICAL DATA SHEET

Recombinant Human Relaxin-2 (Carrier-Free)

Catalog Number: 21-9092

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human Relaxin-2 (Carrier-Free)

DESCRIPTION

Relaxin-2 is a peptide hormone structurally related to insulin, which is expressed in the placenta, decidua, prostate, and ovaries during pregnancy. Of the three known relaxin genes, relaxin-2 is the only relaxin known to circulate in the blood. Relaxin-2 binds specifically to the LGR7 and LGR8 receptors, previously identified as "orphan" G protein-coupled receptors. Signaling by relaxin-2 through its target receptors enhances the growth of pubic ligaments, and the ripening of the cervix during birth.

MOLECULAR MASS

Recombinant Human Relaxin-2 is a non-glycosylated, 6.0 kDa, disulfide-linked, heterodimeric protein consisting of a 24 amino acid A-chain, and a 29 amino acid B-chain.

AMINO ACID SEQUENCE

A-Chain:QLYSALANKC CHVGCTKRSL ARFC
B-Chain:DSWMEEVIKL CGRELVRAQI AICGMSTWS

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

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Angiogenesis/Cardiovascular

RECONSTITUTION

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

REFERENCES

Beiert T, Knappe V, Tiyerili V, Stöckigt F, Effelsberg V, Linhart M, Steinmetz M, Klein S, Schierwagen R, Trebicka J, Roell W, Nickenig G, Schrickel JW, Andrié RP. *Int J Cardiol.* 2018 Jan 1;250:21-28. doi: 10.1016/j.ijcard.2017.09.017. Zoet GAG, van Rijn BBB, Rehfeldt MM, Franx AA, Maas AHEMA. *Maturitas.* 2017 Dec;106:87-91. doi: 10.1016/j.maturitas.2017.09.007.

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.