

TECHNICAL DATA SHEET

# Recombinant Human Relaxin-3 (INSL7) (Carrier-free)

Catalog Number: 21-7129

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

#### CONTENTS

Recombinant Human Relaxin-3 (INSL7) (Carrier-free)

#### DESCRIPTION

At least seven relaxin-like proteins make up the Insulin/Relaxin superfamily. Most consist of two peptide subunits, an alpha-chain and a beta-chain, linked by disulfide bonds. Relaxin-3, also known as INSL7, has been reported as a ligand for LGR7 (RXFP1), and is the only known ligand for GPCR135 (RXFP3). It binds less often with GPCR142. Relaxin-3 is a secreted protein that is reported to play a role in stress response. It is almost exclusively expressed within the brain stem.

#### MOLECULAR MASS

Recombinant Human Relaxin-3 is a heterodimeric protein of 5.5 kDa, consisting of a 24 amino acid alpha-chain and a 27 amino acid beta-chain.

#### AMINO ACID SEQUENCE

alpha chain: DVLAGLSSSC CKWGCSKSEI SSLC

beta chain: RAAPYGVRLC GREFIRAVIF TCGGSRW

#### SOURCE

E. coli

#### APPLICATIONS

Bioassay

#### PURITY

98 %

#### STORAGE

-20°C

#### PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

#### ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

#### AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### CROSS REACTIVITY

#### BIOACTIVITY

No data available at this time.

#### RESEARCH AREAS

Diabetes, Lipid Metabolism, Neurobiology

#### RECONSTITUTION

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

#### REFERENCES

Wilkinson TN, Speed TP, Tregear GW and Bathgate RA. 2005. BMC Evol Biol. 5:14. Liu C, Bonaventure P, Sutton SW, Chen J, Kuei C, Nepomuceno D and Lovenberg TW. 2005. Ann NY Acad Sci. 1041: 47-60. Liu C and Lovenberg TW. 2008. Results Probl Cell Differ. 46: 213-237.

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