TECHNICAL DATA SHEET

Recombinant Human IGF-I LR3 (Carrier-Free)

Catalog Number: 21-9012

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IGF-I LR3 (Carrier-Free)

DESCRIPTION

The IGFs are mitogenic, polypeptide growth factors that stimulate the proliferation and survival of various cell types, including muscle, bone, and cartilage tissue in vitro. IGFs are predominantly produced by the liver, although a variety of tissues produce the IGFs at distinctive times. The IGFs belong to the Insulin gene family, which also contains insulin and relaxin. The IGFs are similar to insulin by structure and function, but have a much higher growth-promoting activity than insulin.

MOLECULAR MASS

Recombinant Human IGF-I LR3 is a 9.1 kDa, single, non-glycosylated polypeptide chain containing 83 amino acid residues.

AMINO ACID SEQUENCE

MFPAMPLSSL FVNGPRTLCG AELVDALQFV CGDRGFYFNK PTGYGSSSRR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA

SOURCE	APPLICATIONS	PURITY	STORAGE
E.coli	Bioassay	98 %	-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

BIOACTIVITY

The ED50 was determined by a cell proliferation assay using FDC-P1 cells is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 105 units/mg.

RESEARCH AREAS

Inflammation, Wound Healing, Bone, Skeletal, Cartilage, Proliferation, Angiogenesis/Cardiovascular, Diabetes/Weight Regulation

RECONSTITUTION

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

REFERENCES

Wu, J. Interspecies Chimerism with Mammalian Pluripotent Stem Cells. 2017. Cell