

TECHNICAL DATA SHEET

Recombinant Human GDF-15/MIC-1 (Carrier-Free)

Catalog Number: 21-9081

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human GDF-15/MIC-1 (Carrier-Free)

DESCRIPTION

GDF-15 belongs to the TGF-Beta cytokine family, whose members play an important role during prenatal development and postnatal growth, and the remodeling and maintenance of a variety of tissues and organs. GDF-15 is expressed predominantly in the placenta and, to a much lesser extent, in various other tissues. Human GDF-15/MIC-1 is a disulfide linked homodimeric protein consisting of two 112 amino acid polypeptide chains.

MOLECULAR MASS

The calculated molecular weight of Human GDF-15/MIC-1 is 24.6 kDa.

AMINO ACID SEQUENCE

ARNGDHCPLG PGRCCRLHTV RASLEDLGWA DWVLSPREVQ VTCIGACPS QFRAANMHAQ IKTSLHRLKP DTVPAPCCVP ASYNPMVLIQ
KTDTGVSLQT YDDLAKDCH CI

SOURCE

Cell Culture

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

Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3/E1 osteoblast cells. The expected ED50 for this effect is 1.0-3.0 ug/ml.

RESEARCH AREAS

Stem Cells & Differentiation, TGF-Beta Superfamily

RECONSTITUTION

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

REFERENCES

Tanno, T. Growth differentiating factor 15 enhances the tumor-initiating and self-renewal potential of multiple myeloma cells. 2014. *Blood*; 123(5):725-33.
Zhang, Y. Potent Paracrine Effects of human induced Pluripotent Stem Cell-derived Mesenchymal Stem Cells Attenuate Doxorubicin-induced Cardiomyopathy. 2015. *Scientific Reports*; 5:11235.

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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