

TECHNICAL DATA SHEET

Recombinant Human GDF-15/MIC-1 (CHO derived) (Carrier-free)

Catalog Number: 21-9224

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human GDF-15/MIC-1 (CHO derived) (Carrier-free)

DESCRIPTION

Growth/differentiation factor-15 (GDF-15), also named macrophage inhibitory cytokine-1 (MIC-1), is a member of the transforming growth factor β superfamily, 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. GDF-15 has become an emerging marker of early heart disease and has the potential as being used as a molecule for screening patients for early heart failure. Recombinant Human GDF-15/MIC-1 is a disulfide-linked homodimeric protein consisting of two 112 amino acid polypeptide chains. The calculated molecular weight of Recombinant Human GDF-15/MIC-1 is 24.6 kDa.

MOLECULAR MASS

24.6 kDa

AMINO ACID SEQUENCE

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

SOURCE

CHO

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

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

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

N/A

BIOACTIVITY

Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3/E1 osteoblast cells. The expected ED50 for this effect is 75-200 ng/ml.

RESEARCH AREAS

Cell Culture, Stem Cells & Differentiation, TGF- β Superfamily

RECONSTITUTION

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

REFERENCES

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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