

TECHNICAL DATA SHEET

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

Catalog Number: 21-9239

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

ARNGDHCPG PGRCCRLHTV RASLEDLGWA DWVLSPREVQ VTCMIGACPS QFRAANMHAQ IKTSLHRLKP DTVAPCCVP ASYNPMVLIQ
 KTDTGVSLQT YDDLAKDCH CI

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

≥98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by HPLC 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

Mouse

BIOACTIVITY

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

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