

**TECHNICAL DATA SHEET**

**Recombinant Human GDF-2 (Carrier-Free)**

Catalog Number: 21-9065

**RPx-Pro™ Recombinant Protein**  
**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human GDF-2 (Carrier-Free)

**DESCRIPTION**

GDF-2 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-2 is expressed mainly in non-parenchymal cells of the liver, but is also found in other various cells and tissues.

**MOLECULAR MASS**

Recombinant Human GDF-2 is a 24.1 kDa disulfide-linked homodimeric protein consisting of two 110 amino acid polypeptide chains.

**AMINO ACID SEQUENCE**

SAGAGSHCQK TSLRVNFEDI GWDSWIAPKE YEAYECKGGC FFPLADDVTPTK HAIVQTLVHL KFPTKVGKAC CVPTKLSPIS VLYKDDMGVP  
 TLKYHYEGMS VAECGCR

**SOURCE**

CHO cells

**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/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 induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 0.5-1.9 ng/ml.

**RESEARCH AREAS**

TGF-Beta Superfamily, Angiogenesis/Cardiovascular

**RECONSTITUTION**

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

**REFERENCES**

Verma, R. Cutting Edge: ACVRL1 Signaling Augments CD8α+ Dendritic Cell Development. 2016. The Journal of Immunology; 197(4):1029-34. Junk, D.J. Oncostatin M promotes cancer cell plasticity through cooperative STAT3-SMAD3 signaling. 2017. Oncogene.

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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