

TECHNICAL DATA SHEET

# Recombinant Human BMP-6 (Carrier-free)

Catalog Number: 21-7004

**RPx-Pro™ Recombinant Protein**

PRODUCT INFORMATION

**CONTENTS**

Recombinant Human BMP-6 (Carrier-free)

**DESCRIPTION**

Bone Morphogenetic Proteins (BMPs) belong to the TGF-beta superfamily of proteins. BMPs elicit their effects by signaling through serine/threonine kinase receptors and play key roles in the development of nearly all organs and tissues by inducing the growth of bone and cartilage. Additionally, BMP-6 plays a key role in regulating hepcidin, a liver peptide that regulates iron metabolism in mammals.

**MOLECULAR MASS**

Recombinant human BMP-6 is a 26.2 kDa homodimeric glycoprotein consisting of two 117 amino acid subunits, which correspond to amino acid residues 397 to 513 of the full-length BMP-6 precursor.

**AMINO ACID SEQUENCE**

VSSASDYNSS ELKTACRKHE LYVSFQDLGW QDWIAPKGY AANYCDGECs FPLNAHMNAT NHAIVQTLVH LMNPEYVPKP  
CCAPTCLNAI SVLYFDDNSN VILKKYRNMV VRACGCH

**SOURCE**

HEK293 cells

**APPLICATIONS**

Bioassay

**PURITY**

95 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

**ENDOTOXIN LEVEL**

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

**AUTHENTICITY**

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

**CROSS REACTIVITY**

Mouse

**BIOACTIVITY**

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> this effect is 0.03 -0.06 µg/ml.

**RESEARCH AREAS**

Angiogenesis/Cardiovascular; Apoptosis; Bone, Skeletal, Cartilage; Proliferation; TGF-beta Superfamily; Stem Cells & Differentiation

**RECONSTITUTION**

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

**REFERENCES**

Hogan BL. 1996. Genes Dev. 10: 1580-1594. Groeneveld EH and Burger EH. 2000. Eur J Endocrinol. 142(1): 9-21. Chen D, Zhao M and Mundy GR. 2004. Growth Factors. 22(4): 233-241. Camaschella C. 2009. Nature Genetics. 41: 386-388.

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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.