

TECHNICAL DATA SHEET

Recombinant Human BMP-3 (Carrier-free)

Catalog Number: 21-7172

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Human BMP-3 (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. BMP-3, also known as osteogenin, is the most abundant BMP in adult bone and is an apparent inhibitor of pro-osteogenic BMPs. BMP-3 activates the TGF-beta/activin pathway which may antagonize the BMP pathway.

MOLECULAR MASS

Recombinant Human BMP-3 is 25.2 kDa homodimeric disulfide-linked protein consisting of amino acids 361 to 472 of the precursor protein.

AMINO ACID SEQUENCE

MQWIEPRNCA RRYLKVDFAD IGWSEWIISP KSFDAYYCSG ACQFPMPKSL KPSNHATIQS IVRAVGVVPG IPEPCCVPEK MSSLSILFFD ENKNVVLKVY
PNMTVESCAC R

SOURCE

E. coli

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 (<1 EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

Mouse

BIOACTIVITY

Inhibition of BMP-2-induced alkaline phosphatase production by ATDC-5 cells is measured.

RESEARCH AREAS

Angiogenesis & Cardiovascular, Differentiation, Bone and Cartilage, Apoptosis, Proliferation, TGF-beta Superfamily, Stem Cells

RECONSTITUTION

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

REFERENCES

Bahamonde ME and Lyons KM. 2001 J Bone Joint Surg Am. 83-A Suppl 1(Pt 1):S56-62. Daluiski A, Engstrand T, Bahamonde ME, Gamer LW, Agius E, Stevenson SL, Cox K, Rosen V and Lyons KM. 2001. Nat Genet. 27(1): 84-88. Hogan BL. 1996. Genes Dev. 10: 1580-1594.

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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