

TECHNICAL DATA SHEET

Recombinant Human Osteoprotegerin (Carrier-Free)

Catalog Number: 21-9197

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Human Osteoprotegerin (Carrier-Free)

DESCRIPTION

Osteoprotegerin (OPG) is a member of the TNFR superfamily that can act as a decoy receptor for RANKL. Binding of soluble OPG to sRANKL inhibits osteoclastogenesis by interrupting the signaling between stromal cells and osteoclastic progenitor cells, thereby leading to excess accumulation of bone and cartilage.

MOLECULAR MASS

Recombinant Human OPG is a soluble 20.0 kDa protein containing 174 amino acid residues.

AMINO ACID SEQUENCE

METFPPKYLH YDEETSHQLL CDKCPPGTYL KQHCTAKWKT VCAPCPDHYY TDSWHTSDEC LYCSPVCKEL QYVKQECNRT HNRVCECKEG RYLEIEFCLK HRSCPPGFGV VQAGTPERNT VCKRCPDGFF SNETSSKAPC RKHTNCSVFG LLLTQKGNAT HDNICSGNSE STQK

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

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, Rat

BIOACTIVITY

Determined by its ability to neutralize the stimulation of U937 cells treated with 10 ng/ml of soluble RANKL (sRANKL).

RESEARCH AREAS

Receptors, TNF Superfamily, Apoptosis, Bone, Skeletal Cartilage, Cancer

RECONSTITUTION

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

REFERENCES

Leslie, D.S. CD1-mediated gamma/delta T cell maturation of dendritic cells. 2002. The Journal of Experimental Medicine; 196(12):1575-84. Sato, N. MyD88 but not TRIF is essential for osteoclastogenesis induced by lipopolysaccharide, diacyl lipopeptide, and IL-1alpha. 2004. The Journal of Experimental Medicine; 200(5):601-11.

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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