

TECHNICAL DATA SHEET

Recombinant Human TRANCE (sRANKL)

Catalog Number: 21-8619

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Human TRANCE (sRANKL)

DESCRIPTION

RANK L is a type II transmembrane protein belonging to the tumor necrosis factor family. RANK L is produced by osteoblasts and bone marrow stromal cells, is required for differentiation of osteoclasts, and stimulates bone resorption.

MOLECULAR MASS

Recombinant Human sRANKL is a 20.0 kDa polypeptide comprising the TNF homologous region of RANKL (176 amino acid residues).

AMINO ACID SEQUENCE

MEKAMVDGSW LDKAKRSKLE AQPFAHLTIN ATDIPSGSHK VSLSSWYHDR GWAKISNMTF SNGKLIVNQD GFYYLYANIC FRH-HETSGDL ATEYLQLMVY VTKTSIKIPS SHTLMKGGST KYWSGNSEFH FYSINVGFF KLRSGEEISI EVSNPSLLDP DQDATYFGAF KVRDID

SOURCE

E. Coli

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

PURITY

98 %

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, Rat

BIOACTIVITY

Determined by its ability to induce NFκB in RAW264.7 cells in the absence of any cross-linking. The expected ED₅₀ for this effect is 10.0-25.0 ng/ml.

APPLICATIONS

Bioassay

RESEARCH AREAS

Apoptosis; Bone, Skeletal, Cartilage; Immune System; TNF Superfamily

STORAGE

-20°C

RECONSTITUTION

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

REFERENCES

Wong BR, J Rho, J Arron, E Robinson, J Orlinick, M Chao, S Kalachikov, E Cayani, FS Bartlett 3rd, WN Frankel, SY Lee, and Y Choi 1997 J Biol Chem 272(40):25190-25194. Anderson DM, E Maraskovsky, WL Billingsley, WC Dougall, ME Tometsko, ER Roux, MC Teepe, RF DuBose, D Cosman, and L Galibert 1997 Nature 390(6656):175-179. Kong YY, H Yoshida, I Sarosi, HL Tan, E Timms, C Capparelli, S Morony, AJ Oliveira-dos-Santos, G Van, A Itie, W Khoo, A Wakeham, CR Dunstan, DL Lacey, TW Mak, WJ Boyle, and JM Penninger 1999 Nature 397(6717):315-323.

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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