

TECHNICAL DATA SHEET

Recombinant Mouse TRANCE (sRANKL) (Carrier-free)

Catalog Number: 21-8612

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse TRANCE (sRANKL) (Carrier-free)

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 Mouse sRANKL is a 19.4 kDa polypeptide comprising the TNF homologous region of RANKL (174 amino acid residues).

AMINO ACID SEQUENCE

PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA SIPSGSHKVT LSSWYHDRGW AKISNMTLSN GKLRVNQDGF YYLYANICFR
HHETSGSVPT DYQLMYYVV KTSIKIPSSH NLMKGGSTKN WSGNSEFHFY SINVGFFKL RAGEEISIQV SNPSLLDPDQ DATYFGAFKV
QDID

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

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

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.

RESEARCH AREAS

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

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 III, 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.

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