

Datasheet

Soluble Receptor Activator of NFκB Ligand

Murine Recombinant

Product	Description	Catalogue-No.	Size
sRANKL	Soluble receptor activator of NFκB ligand, murine recombinant	CB-3200010	10 µg

Product description

Synonyms: TRANCE, TNF-related activation-induced cytokine; ODF, Osteoclast differentiation factor; TNFSF11, Tumor necrosis factor ligand superfamily member 11; CD254 antigen

RANKL binds to tnfrsf11b/opg and to tnfrsf11a/rank. Osteoclast differentiation and activation factor augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. sRANKL may also play an important role in enhanced bone resorption in humoral hypercalcemia of malignancy.

sRANKL murine recombinant produced in E. coli is a single, non-glycosylated, polypeptide chain containing 174 amino acids, having a total molecular mass of 19.9 kDa. CD254 is purified by proprietary chromatographic techniques.

Solubility and storage conditions

It is recommended to reconstitute the lyophilized sRANKL in sterile distilled water not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

Lyophilized sRANKL although stable at room temperature for 3 weeks, should be stored desiccated below -20° C. Upon reconstitution sRANKL should be stored at 2-8° C for up to 7 days and for future use below -20° C. For long term storage it is recommended to add a carrier protein (e.g. 0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Composition

Sterile Filtered White lyophilized (freeze-dried) powder. The protein (1 mg/ml) was lyophilized with 10mM Na₂PO₄, pH 7.5 and 50 mM NaCl.

Purity: > 95.0% as determined by SDS-PAGE.

Amino acid sequence: PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA SIPSGSHKVT
 LSSWYHDRGW AKISNMTLSN GKLRVNQDGF YYLYANICFR HHETSGSVPT DYLLQLMVYVV
 KTSIKIPSSH NLMKGGSTKN WSGNSEHFHY SINVGGFFKL RAGEEISIQV SNPSLLDPDQ
 DATYFGAFKV QDID.

Biological activity

Measured by its ability to induce osteoclast formation on murine RAW 264.7 cells using a concentration of 50 ng/ml as shown in "Corning® Osteo Assay Surface 24 Well Plates with Transwell® Permeable Supports- A Useful Tool for Co-Culture Studies" by Rebecca M. Wood and Mark Rothenber, corresponding to a specific activity of 20,000 U/mg.

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support

Additional information available on our website: www.pan-biotech.com

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.