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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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RANK ligand, soluble, mouse recombinant (rmsRANKL)

Catalog No: 94938
Lot No: XXXXX
Source: *E. coli*
Synonyms: Soluble Receptor Activator of NFkB Ligand, TNFSF11, TRANCE, TNF-related activation-induced cytokine, OPGL, ODF, Osteoclast differentiation factor, Tumor necrosis factor ligand superfamily member 11, Receptor activator of nuclear factor kappa B ligand, RANKL, Osteoprotegerin ligand, CD254 antigen, sRANKL, sOdf, hRANKL2

Background

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.

Description

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

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein (1 mg/ml) was lyophilized with 10 mM Na₂PO₄, pH 7.5 and 50 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized sRANKL in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized TNFSF11, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution sRANKL should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA SIPSGSHKVT LSSWYHDRGW AKISNMTLSN GKLRVNQDGF YYLYANICFR
HHETSGSVPT DYLLQLMVYV V KTSIKIPSSH NLMKGGSTKN WSGNSEHFHY SINVGGFFKL RAGEEISIQV SNPSLLDPDQ
DATYFGAFKV QDID

Activity

Measured by its ability to induce osteoclast formation on murine RAW264.7 cells using a concentration of 50 ng/ml shown in "Corning® Osteo Assay Surface 24 Well Plates with Transwell® Permeable Supports- A Useful Tool for Co-Culture Studies" by Rebecca M.



Usage

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