
Product Data Sheet

Product Name: sRANKL Mouse
 Cat. No.: GP20894
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Soluble Receptor Activator of NFκB 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.		
Amino Acid Sequence	MPAMMEGSWL DVAQRGKPEA QPFAHLTINA ASIPSGSHKV TLSSWYHDRG WAKISNMTLS NGKLRVNQDG FYYLYANICF RHHETSGSVP TDYLQLMVYV VKTSIKIPSS HNLMKGGSTK NWSGNSEFHF YSINVGGFFK LRAGEEISIQ VSNPSLLDPD QDATYFGAFK VQDID.		
Solubility	It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein (1mg/ml) was lyophilized with 10mM sodium phosphate, pH 7.5 & 20mM NaCl.		

Introduction

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.

Biological Activity

Measured by its ability to induce TNF-alpha production in mouse RAW264.7 cells. The

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ED50 is 48-72ng/ml, corresponding to a specific activity of 2.1×10^4 Units/mg

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.

Background

sRANKL Mouse Recombinant produced in E.coli is single, non-glycosylated, polypeptide chain containing 175 amino acids (143-316 a.a.) and having a total molecular mass of 19.5kDa. CD254 is purified by proprietary chromatographic techniques.

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