
Product Data Sheet

Product Name: sRANKL Human
 Cat. No.: GP20891
 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; hRANKL2.		
Amino Acid Sequence	EKAMVDGSW LDLAKRSKLE AQPFAHLTIN ATDIPSGSHK VSLSSWYHDR GWAKISNMTF SNGKLIVNQD GFYYLYANIC FRHHETSGDL ATEYLQLMVY VTKTSIKIPS SHTLMKGGST KYWSGNSEFH FYSINVGGFF KLRSGEEISI EVSNPSLLDP DQDATYFGAF KVRDID.		
Solubility	It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H ₂ O at a concentration of 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution containing 10mM Sodium phosphate, pH-7.5.		

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

The activity of RAW-Blue was measured to be 40.4 ng/ml, corresponding to a specific

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activity of 2.5×10^4 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 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 175 amino acids and having a molecular mass of 19.7kDa.

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