
Product Data Sheet

Product Name: sRANKL (158-316) Mouse

Cat. No.: GP20895

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	Lys158-Asp316, with an N-terminal Met, Accession # Q3TWY5.		
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	sRANKL protein was lyophilized from a 0.2μm filtered solution in NaH ₂ PO ₄ , NaCl and EDTA.		

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 ED₅₀, as measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells, is less than 2ng/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized sRANKL 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 a single, non-glycosylated polypeptide chain (158-316 a.a) having a molecular mass of 19kDa. The sRANKL is purified by proprietary chromatographic techniques.

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