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sRANKL Human

RANK Ligand Soluble Human Recombinant
GRF0379

Product Overview

Name	sRANKL Human
Description	
RANK Ligand Soluble Human Recombinant	
Accession (Primary)	O14788
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.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution containing 10mM Sodium phosphate, pH-7.5.	
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 analysis by SDS-PAGE.	
Amino acid sequence	
EKAMVDGSW LDLAKRSKLE AQPFAHLTIN ATDIPSGSHK VSLSSWYHDR GWAKISNMTF SNGKLIVNQD GFYYLYANIC FRHHETSGDL ATEYLQLMVY VTKTSIKIPS SHTLMKGGST KYWSGNSEFH FYSINVGGFF	

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KLRSGEEISI EVSNPSLLDP DQDATYFGAF KVRDID.

Biological Activity

The activity of RAW-Blue was measured to be 38.8 ng/ml, corresponding to a specific activity of 2.6x10 4 units/mg.

Solubility

It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H2O at a concentration of 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

1. Title :Cathepsin K Expression and Activity in Canine Osteosarcoma. Publication : Article first published online: 15 DEC 2011 DOI:10.1111/j.1939-1676.2011.00834.x Copyright © 2011 by the American College of Veterinary Internal Medicine. Link : sRANKL prospec publication 2.Title : Grape Seed Procyanidin Reversal of P-glycoprotein Associated Multi-Drug Resistance via Down-regulation of NF-?B and MAPK/ERK Mediated YB-1 Activity in A2780/T Cells Publication : DOI: 10.1371/journal.pone.0071071, August 15, 2013 Link : RANK Ligand Soluble prospec publication

Precautions

sRANKL Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O14788)