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sRANKL Mouse

RANK Ligand Soluble Mouse Recombinant
GRF0382

Product Overview

Name	sRANKL Mouse
Description	
RANK Ligand Soluble Mouse Recombinant	
Accession (Primary)	O35235
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.	
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 (1mg/ml) was lyophilized with 10mM Na 2 PO 4 , pH 7.5 & 50mM NaCl.	
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 DYLQLMVYVV KTSIKIPSSH NLMKGGSTKN WSGNSEFHFY SINVGGFFKL	

RAGEEISIQV SNPSLLDPDQ DATYFGAFKV QDID.

Biological Activity

Measured by its ability to induce osteoclast formation on murine RAW264.7 cells using a concentration of 50ng/ml shown in “Corning® Osteo Assay Surface 24 Well Plates with Transwell® Permeable Supports- A Useful Tool for Co-Culture Studies” by Rebecca M. Wood and Mark Rothenber, corresponding to a specific activity of 20,000Units/mg.

Solubility

It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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

Target Information: (O35235)