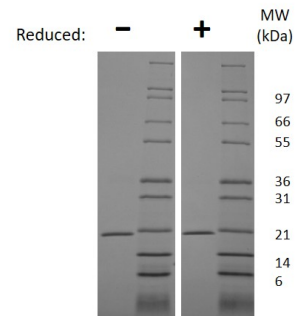
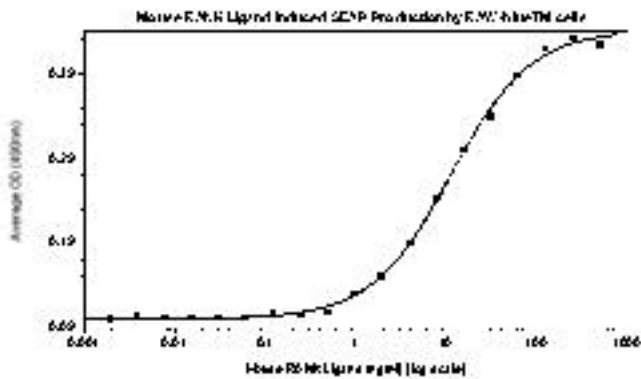


Tnfsf11

Recombinant Mouse Soluble RANK Ligand

Catalog No.	CRR101A CRR101B CRR101C CRR101D	Quantity:	2 µg 10 µg 1.0 mg 100 µg
Alternate Names:	Tumor necrosis factor ligand superfamily member 11, Receptor activator of nuclear factor kappa-B ligand, RANKL, CD254, Osteoclast differentiation factor, ODF, TNF-related activation-induced cytokine, TRANCE		
Description:	Receptor Activator of NF-κB Ligand (RANK Ligand) is a cell-bound marker (CD254) related to the TNF family of proteins. RANK Ligand plays a critical role in bone metabolism, particularly osteoclast differentiation. In addition, RANK Ligand is expressed by some T cells is a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response.		
Gene ID:	21943		
UniProt ID:	O35235		
Source:	<i>E. coli</i>		
Molecular Weight:	Monomer, 19.5 kDa (175 aa)		
Formulation:	Lyophilized from 10 mM sodium phosphate, 20 mM sodium chloride, pH 7.5.		
Purity:	≥95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤1 EUs/µg by kinetic LAL analysis.		
Biological Activity:	ED ₅₀ ≤ 50 ng/mL determined by activity of RAW-Blue™ cells. This product also demonstrates TNF-alpha production in RAW cells (typical ED50 is 50-75 ng/mL) and Osteoclast formation (first detectable at 50 ng/mL).		
Specific Activity:	≥ 2.0 x 10 ⁴ units/mg		
Amino Acid Sequence:	MPAMMEGSWL DVAQRGKPEA QPFAHLTINA ASIPSGSHKV TLSSWYHDRG WAKISNMTLS NGKLRVNQDG FYYLYANICF RHHETSGSVP TDYLQLMVYV VKTSIKIPSS HNLMKGGSTK NWSGNSEFHF YSINVGGFCK LRAGEEISIQ VSNPSLLDPD QDATYFGAFK VQDID		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipette solution up and down sides of vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles.		



Mouse RANK-Ligand Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse RANK-Ligand has a predicted MW of 19.5 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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