

TNFSF11

Recombinant Human soluble RANK Ligand

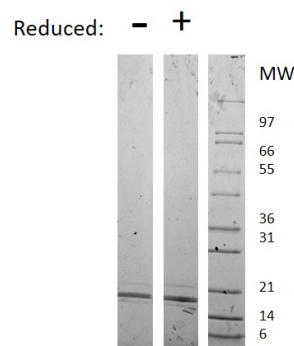
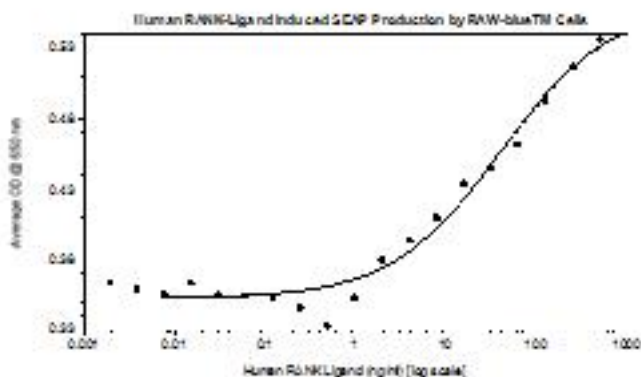
Catalog No.	CRR100A CRR100B CRR100C CRR100D	Quantity:	2 µg 10 µg 1.0 mg 100 µg
Alternate Names:	Tumor necrosis factor ligand superfamily member 11, Receptor activator of nuclear factor kappa-B ligand, RANKL, CD254, Osteoclast differentiation factor, ODF, TNF-related activation-induced cytokine, TRANCE		
Description:	Receptor Activator of NF-κB Ligand (RANKL) is a cell-bound marker (CD254) related to the TNF family of proteins. RANKL plays a critical role in bone metabolism, particularly osteoclast differentiation. In addition, RANKL is expressed by some T cells is thought to promote dendritic cell maturation.		
UniProt ID:	O14788		
Gene ID:	8600		
Source:	<i>E. coli</i>		
Molecular Weight:	19.7 kDa (175 aa)		
Formulation:	Lyophilized from a sterile filtered aqueous solution containing 10 mM Na ₂ PO ₄ , pH 7.5		
Purity:	≥ 95 % as determined by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1 EU/µg protein, by kinetic LAL analysis.		
Biological Activity:	ED ₅₀ ≤ 50 ng/mL determined by activity of RAW-Blue™ cells. This product demonstrates dose-dependent stimulation of IL-8 production in human PBMC.		
Specific Activity:	≥ 2.0 x 10 ⁴ units/mg		
Amino Acid Sequence:	EKAMVDGSWL DLAKRSKLEA QPFAHLTINA TDIPSGSHKV SLSSWYHDRG WAKISNMTFS NGKLIVNQDG FYYLYANICF RHHETSGDLA TEYLQLMVYV TKTSIKIPSS HTLMKGGSTK YWSGNSEFHF YSINVGFFK LRSGEEISIE VSNPSLLDPD QDATYFGAFK VRDID		
Reconstitution:	Centrifuge vial prior to opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml. DO NOT VORTEX.		



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.



Human RANK Ligand Gel

Figure: 1 ug protein under (-) non-reducing and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human RANK Ligand has a predicted MW of 19.7 kDa.

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



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