

## TNFSF11

### Recombinant Human soluble RANK Ligand, Animal Free

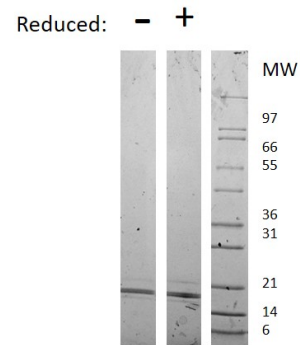
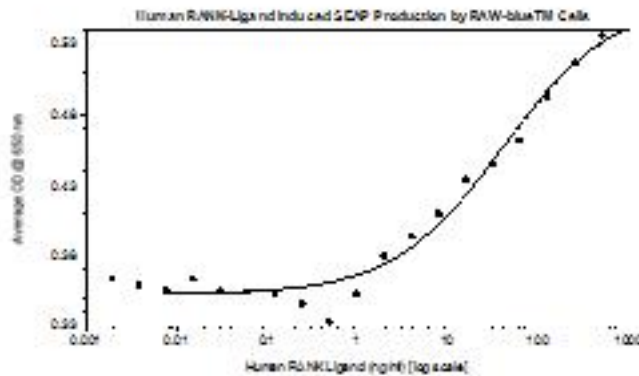
<b>Catalog No.</b>	CRR100A-AF CRR100B-AF CRR100C-AF CRR100D-AF	<b>Quantity:</b>	2 µg 10 µg 1.0 mg 100 µg
<b>Alternate Names:</b>	Tumor necrosis factor ligand superfamily member 11, Receptor activator of nuclear factor kappa-B ligand, RANKL, CD254, Osteoclast differentiation factor, ODF, TNF-related activation-induced cytokine, TRANCE		
<b>Description:</b>	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.		
<b>UniProt ID:</b>	O14788		
<b>Gene ID:</b>	8600		
<b>Source:</b>	<i>E. coli</i> <b>Manufactured without Animal-derived products, in an Animal Free facility.</b>		
<b>Molecular Weight:</b>	19.7 kDa (175 aa)		
<b>Formulation:</b>	Lyophilized from a sterile filtered aqueous solution containing 10 mM Na <sub>2</sub> PO <sub>4</sub> , pH 7.5		
<b>Purity:</b>	≥ 95 % as determined by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 1 EU/µg protein, by kinetic LAL analysis.		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 50 ng/mL determined by activity of RAW-Blue™ cells. This product demonstrates dose-dependent stimulation of IL-8 production in human PBMC.		
<b>Specific Activity:</b>	≥ 2.0 x 10 <sup>4</sup> units/mg		
<b>Amino Acid Sequence:</b>	EKAMVDGSWL DLAKRSKLEA QPFAHLTINA TDIPSGSHKV SLSSWYHDRG WAKISNMTFS NGKLIVNQDG FYYLYANICF RHHETSGDLA TEYLQLMVYV TKTSIKIPSS HTLMKGGSTK YWSGNSEFHF YSINVGFFFK LRSGEIEISIE VSNPSLLDPD QDATYFGAFK VRDID		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> 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, which can be further diluted into other aqueous solutions.		



## 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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