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TNFRSF11A Recombinant Human RANK Receptor, soluble

Catalog No.	CRR102B	Quantity:	100 µg
Alternate Names:	Tumor necrosis factor receptor superfamily member 11A, TNFRSF11A, CD265, Osteoclast differentiation factor, ODFR, Receptor activator of NF-KB		
Description:	RANKL and RANK are members of the TNF superfamily of ligands and receptors that play an important role in the regulation of specific immunity and bone turnover. RANK (receptor) was originally identified as a dendritic-cell-membrane protein, which by interacting with RANKL augments the ability of dendritic cells to stimulate naïve T cell proliferation and to promote the survival of RANK + T cells. RANK is also expressed in a variety of tissues including skeletal muscle, thymus, liver, colon, small intestine and adrenal gland. The RANK/RANKL interaction is important in the regulation of osteoclastogenesis and in dendritic-cell-mediated T cell immune responses. Impairments in RANK signaling have been implicated in the induction of expansile osteolysis and Paget disease of bone (PDB2). Recombinant human sRANK receptor contains the TNFR homologous cysteine rich portion of the extracellular domain of RANK receptor.		
UniProt ID:	Q9Y6Q6		
Gene ID:	8792		
Source:	E. coli		
Molecular Weight:	19.3 kDa (175 aa)		
Formulation:	Lyophilized from 10 mM sodium phosphate, pH 7.2.		
Purity:	> 98% by SDS-PAGE & HPLC analyses		
Endotoxin Level:	< 0.1 ng/µg protein (< 1 EU/µg	g)	
Biological Activity:	ED ₅₀ < 30-50 ng/ml, determine RAW264.7 cells in the absence recombinant sRANKL.	ed by its ability to inhibit sf ce of any cross-linking, in th	RANKL induced NFkappaB in he presence of 15ng/ml of
Amino Acid Sequence:	MQIAPPCTSE KHYEHLGRC DSWNEEDKCL LHKVCDTGF RRNTECAPGL GAQHPLQLN LGKRVEHHGT EKSDAVCSS	C NKCEPGKYMS SKCTT KA LVAVVAGNST TPRRC IK DTVCKPCLAG YFSDA IS LPARK	TSDSV CLPCGP DEYL ACTAG Y HWSQDCECC FS STD KCRPWTNCTF
Reconstitution:	Centrifuge vial prior to oper 0.1-1.0 mg/ml with gentle mix recommended to further dilute BSA) and store in working alig	ening. Reconstitute in deionized water to a concentration of ixing. Do not vortex. For extended storage, it is ute in a buffer containing a carrier protein (example 0.1% aliquots at -20°C to -80°C.	
Storage & Stability:	Lyophilized protein is stable for year at -20°C to -80°C. Store aliquots for 3 months at -20°C	or 1 month at room tempera reconstituted product for to -80°C. Avoid repeated	ature, 6 months at 2-8°C and 1 1 week at 2-8°C or in working I freeze-thaw cycles .

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