

RANK Ligand Soluble Human Recombinant

Item Number	rAP-2453
Synonyms	Soluble Receptor Activator of NFκB 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, RAN
Description	sRANKL Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 175 amino acids and having a molecular mass of 19.7kDa.
Uniprot Accesion Number	O14788
Amino Acid Sequence	EKAMVDGSW LDLAKRSKLE AQPFAHLTIN ATDIPSGSHK VSLSSWYHDR GWAKISNMTF SNGKLIVNQD GFYYLYANIC FRHHETSGDL ATEYLQLMVY VTKTSIKIPS SHTLMKGGST KYWS- GNSEFH FYSINVGFF KLRSGEIISI EVSNPSELLDP DQDATYFGAF KVRDID.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	The protein was lyophilized from a concentrated (1mg/ml) solution containing 10mM Sodium phosphate, pH -7.5. Greater than 95.0% as determined by analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H2O at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The activity is determined by a dose-dependent stimulation of IL-8 production in human PBMC and is typically less than 100ng/ml, corresponding to a specific activity of 10,000 Units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**