

## 32-1721: sRANK Receptor Recombinant Protein

**Alternative Name :** Tumor necrosis factor receptor superfamily member 11A, Osteoclast differentiation factor receptor, ODFR, Receptor activator of NF- $\kappa$ B, FEO, OFE, ODFR, OSTs, PDB2, RANK, CD265, OPTB7, TRANCER, LOH18CR1.

### Description

Source : Escherichia Coli. sRANK Receptor Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 174 amino acids and having a molecular mass of 19.1kDa. The sRANK Receptor is purified by proprietary chromatographic techniques. sRANK Receptor is a part of the TNF superfamily of ligands and receptors which participates in the regulation of specific immunity and bone turnover. sRANK Receptor was originally acknowledged as a dendritic-cell-membrane protein, which by interacting with RANKL augments the capacity of dendritic cells to stimulate naive T cell proliferation and to endorse the survival of RANK and T cells. The full length human RANK cDNA encodes a type I transmembrane protein of 616 amino acids with a predicted 183 amino acid extracellular domain and a 383 amino acid cytoplasmic domain. sRANK Receptor is also expressed in a various tissues including skeletal muscle, thymus, liver, colon, small intestine and adrenal gland.

### Product Info

**Amount :** 100  $\mu$ g  
**Purification :** Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in 20mM Tris-HCl, pH 8.0 and 150mM NaCl.  
**Storage condition :** Lyophilized sRANK Receptor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution sRANK Receptor 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.  
**Amino Acid :** QIAPPCTSEK HYEHLGRCCN KCEPGKYMSS KCTTSDSVC LPCGPDEYLD SWNEEDKCLL HKVCDTGKAL VAVVAGNSTT PRRCACTAGY HWSQDCECCR RNTECAPGLG AQHPLQLNKD TVCKPCLAGY FSDAFSSTDK CRPWTNCTFL GKRVEHHGTE KSDAVCSSSL PARK.

### Application Note

It is recommended to reconstitute the lyophilized sRANK Receptor in sterile 18M-cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub> as determined by its ability to inhibit sRANK Ligand induced nuclear factor kappa B (NF $\kappa$ B) in RAW 264.7 cells is less than 50 ng/ml, corresponding to a specific activity of > 2.0  $\times$  10<sup>4</sup> IU/mg in the presence of 15 ng/ml of recombinant sRANK Ligand.

