

Soluble RANK Receptor Human Recombinant

Item Number	rAP-2456
Synonyms	Tumor necrosis factor receptor superfamily member 11A, Osteoclast differentiation factor receptor, ODFR, Receptor activator of NF-KB, FEO, OFE, ODFR, OSTs, PDB2, RANK, CD265, OPTB7, TRANCER, LOH18CR1.
Description	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.
Uniprot Accession Number	Q9Y6Q6
Amino Acid Sequence	QIAPPCTSEK HYEHLGRCCN KCEPGKYMSS KCTTTSDSVC LPCGPDEYLD SWNEEDKCLL HKVCDTGKAL VAVVAGNSTT PRRCACTAGY HWSQDCECCR RNTECAPGLG AQHPLQLNKD TVCK- PCLAGY FSDAFSSTDK CRPWTNCTFL GKRVEHHGTE KSDAVCSSSL PARK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0 and 150mM NaCl. Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized sRANK Receptor in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by its ability to inhibit sRANK Ligand induced nuclear factor kappa B (NFkappaB) in RAW 264.7 cells is less than 50 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁴ IU/mg in the presence of 15 ng/ml of recombinant sRANK
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**