

Recombinant Human soluble Receptor Activator of Nuclear Factor kappa-B Receptor/TNFRSF11A (Human sRANK Receptor/TNFRSF11A)

Product Information

Product Name	Cat#	Size
Recombinant Human soluble Receptor Activator of Nuclear Factor kappa-B Receptor/TNFRSF11A (Human sRANK Receptor/TNFRSF11A)	90614ES60	100µg
Recombinant Human soluble Receptor Activator of Nuclear Factor kappa-B Receptor/TNFRSF11A (Human sRANK Receptor/TNFRSF11A)	90614ES76	500µg

Product Description

Recombinant Human sRANK Receptor is a 19.3 kDa polypeptide containing the TNFR-homologous, cysteine-rich portion of the extracellular domain of RANK receptor (175 amino acid residues). 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. These dendritic cells then stimulate naïve T-cell proliferation, and 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's disease of bone (PDB2).

Product Properties

Synonyms	Q9Y6Q6
Accession	8792
GeneID	355
Source	E.coli-derived Human sRANK Receptor protein,Aln29-Lys202.
Molecular Weight	Approximately 19.1 kDa
AA Sequence	QIAPPCTSEK HYEHLGRCCN KCEPGKYMSS KCTTTSDSVC LPCGPDEYLD SWNEEDKCLL HKVCDTGKAL VAVVAGNSTT PRRCACTAGY HWSQDCECCR RNTECAPGLG AQHPLQLNKD TVCKPCLAGY FSDAFSSTDK CRPWTNCTFL GKRVEHHGTE KSDAVCSSSL PARK
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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 Ligand.
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 150mM NaCl.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.