

RANKL/TNFSF11/TRANSC/CD254, Human, Recombinant

Cat. No. : PCK057

General Information

Synonyms	soluble Receptor Activator of NF- κ B Ligand;TNFSF11;TRANSC (TNF-Related Activation-induced Cytokine); OPGL;ODF (Osteoclast Differentiation Factor);CD254;sRNAK Ligand
Species	Human
Expression host	E.coli
Sequence	MEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGSHKVSLSWYHDRGWAKISNMTFS NGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLMVYVTKTSIKIPSSHTLMKGGSTKYWS GNSEFHFYSINVGGFKLRSGEISIEVSNPSLLDPDQDATYFGAFKVRDID with polyhistidine [®] tag at the C-terminus.
Accession	014788.1
Tag	His-tag at the C-terminus
Mol mass	20.67 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce osteoclast differentiation in RAW264.7 cells. The ED50 for this effect is < 10 ng/mL.

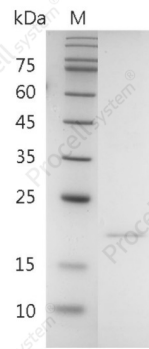
Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μ m filtered solution containing 1 $\times$ PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μ g/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

RANKL and RANK are members of the TNF superfamily of ligands and receptors that is critical for 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. These dendritic cells then stimulate na^{ve} T-cell proliferation in a mixed lymphocyte reaction, promote the survival of RANK+ T-cells, and regulate T-cell-dependent immune response. RANKL, which is expressed in a variety of cells, including osteoblasts, fibroblasts, activated T-cells and bone marrow stromal cells, is also capable of interacting with a decoy receptor called OPG.

SDS-PAGE



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