

RANKL/TNFSF11/CD254 Protein, Mouse, Recombinant (His & SUMO)

General Information

Synonyms:	Tumor necrosis factor ligand superfamily member 11;Tnfsf11;CD254;Receptor activator of nuclear factor kappa-B ligand (RANKL);TNF-related activation-induced cytokine (TRANCE);Trance;Rankl;Osteoclast differentiation factor (ODF);Opgl;Osteoprotegerin ligand (OPGL)
Protein Construction:	70-316 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	O35235
Molecular Weight:	43.9 kDa (predicted)
AA Sequence:	YFRAQMDPNRISEDSTHCFYRILRLHENADLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSG APAMMEGSWLDVAQRGKPEAQPF AHLTINAASIPSGSHKVTLSWYHDRGWAKISNMTLSNGKLRVNQDG FYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEHFHYSINVGFFKLRAG EEISIQVSNPSSLDPDQDATYFGAFKVQDID

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:
Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor.

A DRUG SCREENING EXPERT

Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. Induces osteoclastogenesis by activating multiple signaling pathways in osteoclast precursor cells, chief among which is induction of long lasting oscillations in the intracellular concentration of Ca (2+) resulting in the activation of NFATC1, which translocates to the nucleus and induces osteoclast-specific gene transcription to allow differentiation of osteoclasts. During osteoclast differentiation, in a TMEM64 and ATP2A2-dependent manner induces activation of CREB1 and mitochondrial ROS generation necessary for proper osteoclast generation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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