

RANK/TNFRSF11A Protein, Human, Recombinant (aa 30-212, His)

General Information

Synonyms:	CD265 antigen;FEO;TRANCER;ODFR;ODFROSTS;TRANCE R;TNFRSF11A;OFE;OPTB7;CD265;PDB2;receptor activator of nuclear factor- κ B;RANK1;tumor necrosis factor receptor superfamily member 11A;receptor activator of nuclear factor-kappa B;Receptor activator of NF-KB
Protein Construction:	Ile30-Pro212
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9Y6Q6
Molecular Weight:	25-30 KDa (reducing condition)
AA Sequence:	Ile30-Pro212

QC Testing

Biological Activity:	Loaded Human RANK-His on HIS1K Biosensor, can bind Human RANK L with an affinity constant of <1 pM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/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

Receptor Activator of Nuclear Factor κ B (RANK), also known as CD265, TRANCE Receptor or TNFRSF11A, is member of the tumor necrosis factor receptor (TNFR) molecular superfamily. RANK is the receptor for RANK-Ligand (RANKL) and part of the RANK/RANKL/OPG signaling pathway that regulates osteoclast differentiation and activation. It

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plays a vital role in bone remodeling and repair, immune cell function, lymph node development, thermal regulation, and mammary gland development. RANK is constitutively expressed in skeletal muscle, thymus, liver, colon, small intestine, adrenal gland, osteoclast, mammary gland epithelial cells, prostate, vascular cell, and pancreas.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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