

Human RANKL/TNFSF11/CD254 Protein

Cat. No. RKL-HM101

Description

Source	Recombinant Human RANKL/TNFSF11/CD254 Protein is expressed from HEK293 with His tag and Flag tag at the N-Terminus. It contains Gly63-Asp244.
Accession	O14788-2
Molecular Weight	The protein has a predicted MW of 22.6 kDa. Due to glycosylation, the protein migrates to 35-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage

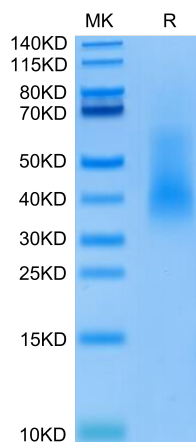
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Receptor activator of nuclear factor x03BA;B (RANK) and its ligand (RANKL) have originally been described for their key roles in bone metabolism and the immune system. Subsequently, it has been shown that the RANKL-RANK system is critical in the formation of mammary epithelia in lactating females and the thermoregulation of the central nervous system. RANKL and RANK are under the tight control of the female sex hormones estradiol and progesterone.

Assay Data

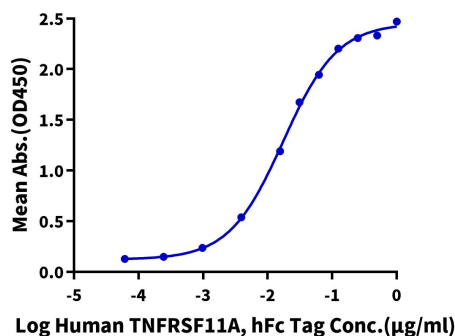
Bis-Tris PAGE



Human Rankl on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

ELISA Data

Human RANKL, His Tag ELISA
0.2µg Human RANKL, His Tag Per Well



Immobilized Human RANKL, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TNFRSF11A, hFc Tag with the EC50 of 17.4ng/ml determined by ELISA.