

Human TNFRSF11A/Rank Protein

Cat. No. RNK-HM211

Description

Source	Recombinant Human TNFRSF11A/Rank Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ile30-Pro212.
Accession	Q9Y6Q6-1
Molecular Weight	The protein has a predicted MW of 46.85 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

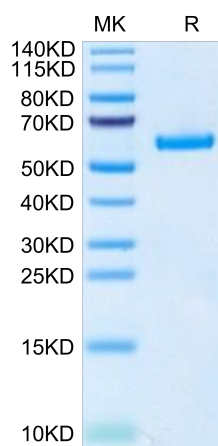
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 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

TNFRSF11A, also known as receptor activator of NF- κB (RANK), activates several signaling pathways, such as NF- κB , JNK, ERK, p38 α , and Akt/PKB. RANK/TNFRSF11A is a novel and frequent target for de novo methylation in gliomas, which affects apoptotic activity and focus formation thereby contributing to the molecular pathogenesis of gliomas.

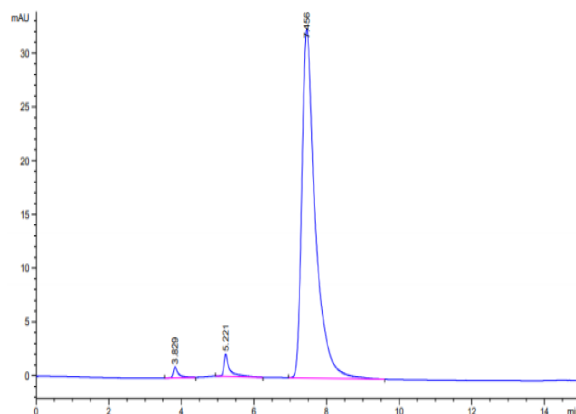
Assay Data

Bis-Tris PAGE



Human TNFRSF11A on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



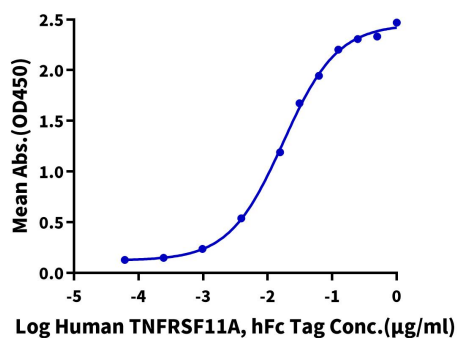
The purity of Human TNFRSF11A is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human TNFRSF11A, hFc 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.