

Human TNFRSF11B Protein

Cat. No. TNF-HM11B

Description

Source	Recombinant Human TNFRSF11B Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu22-Leu401.
Accession	O00300
Molecular Weight	The protein has a predicted MW of 44.71 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

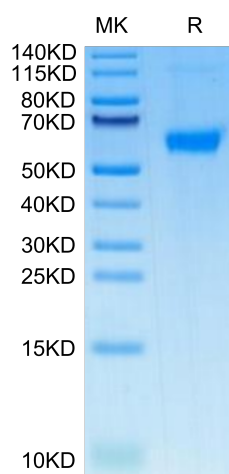
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Osteoprotegerin (OPG) is a key regulator in bone metabolism, that also has effect in vascular system. Studies suggest that osteoprotegerin is a critical arterial calcification inhibitor, and is released by endothelial cells as a protective mechanism for their survival in certain pathological conditions, such as diabetes mellitus, chronic kidney disease, and other metabolic disorders.

Assay Data

Tris-Bis PAGE



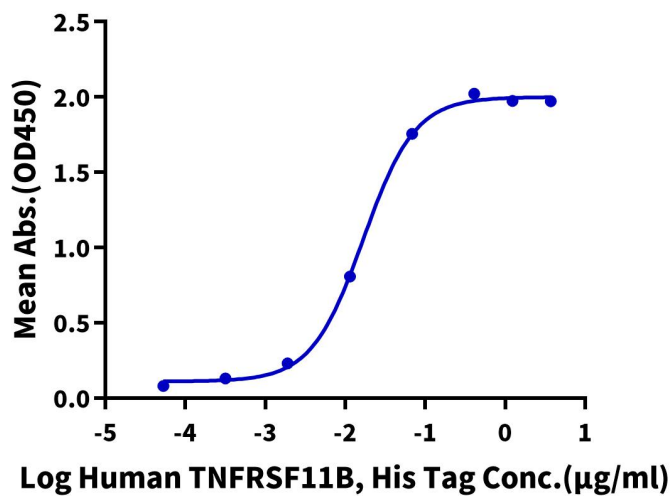
Human TNFRSF11B on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

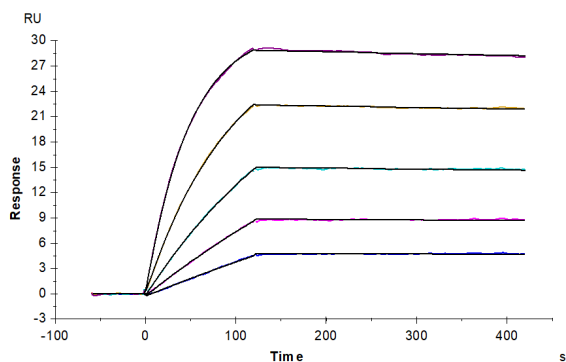
Human TNFRSF11B, His Tag ELISA

0.2µg Human RANKL, No Tag Per Well



Immobilized Human RANKL, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TNFRSF11B, His Tag with the EC50 of 16.8ng/ml determined by ELISA.

SPR Data



Human TNFRSF11B, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human RANKL, No Tag with an affinity constant of 0.030 nM as determined in SPR assay (Biacore T200).