

For Research Use Only

Recombinant Mouse TNFSF11/RANKL protein (rFc Tag)(HPLC verified)



Catalog Number: Eg1956

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse TNFSF11 protein Arg72-Asp316 (Accession# O35235-1) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
21943

Accession:
O35235-1

Predicted Molecular Mass:
54.8 kDa

SDS-PAGE:
52-65 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

TNFSF11 also known as RANKL, is a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. RANKL is produced by a diverse set of lineage-specific cells and is involved in a wide variety of physiological processes that include skeletal remodeling, lymph node organogenesis, mammary gland development, and thermal regulation. RANKL was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy.

References

1. Giuliani N. et al. (2004) Exp Hematol. 32(8):685-91.
2. Hanada R. et al. (2011) J Mol Med (Berl). 89(7):647-56.
3. Onal M. et al. (2015) J Bone Miner Res. 30(5):855-68.
4. Danks L. et al. (2016) Ann Rheum Dis. 75(6):1187-95.

Synonyms

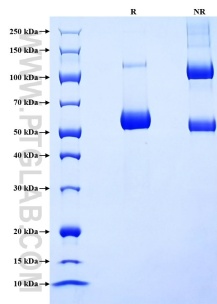
CD254, ODF, OPGL, Osteoclast differentiation factor, Osteoprotegerin ligand

For technical support and original validation data for this product please contact

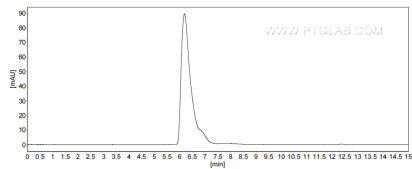
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Selected Validation Data



Purity of Recombinant Mouse TNFSF11 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse TNFSF11/RANKL was greater than 90% as determined by SEC-HPLC.