

For Research Use Only

Recombinant Human TNFSF11/RANKL protein (His Tag)



Catalog Number: Eg0982

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
CHO-derived Human TNFSF11 protein Gly64-Asp245 (Accession# AAC51762.1) with a His tag at the N-terminus.

GeneID:
8600

Accession:
AAC51762.1

Predicted Molecular Mass:
21.3 kDa

SDS-PAGE:
22-27 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m 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.

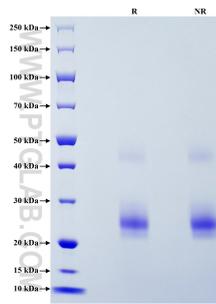
References

- 1.Giuliani N.etal.(2004)ExpHematol.32(8):685-91.
- 2.Hanada R.etal.(2011)JMolMed(Berl).89(7):647-56.
- 3.Onal M.etal.(2015)JBoneMinerRes.30(5):855-68.
- 4.Danks L.etal.(2016)AnnRheumDis.75(6):1187-95.

Synonyms

TNFSF11, CD 254, CD254, Receptor activator of nuclear factor kappa-B ligand, TNF-related activation-induced cytokine

Selected Validation Data



Purity of Recombinant Human 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.

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

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