

For Research Use Only

Recombinant Mouse RANK/TNFRSF11A protein (rFc Tag)



Catalog Number: Eg1829

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse RANK protein Val31-Ser214 (Accession# O35305) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

21934

Accession:

O35305

Predicted Molecular Mass:

46.3 kDa

SDS-PAGE:

50-65 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

RANK (TNFRSF11A) is a TNF receptor family member that mediates RANKL-dependent activation of NF- κ B signaling, driving osteoclast differentiation and bone resorption. Beyond skeletal biology, RANK regulates immune cell function and mammary gland development. Genetic or pathological dysregulation of the RANK-RANKL-OPG axis underlies bone metabolic disorders, inflammatory osteolysis, and cancer-associated bone disease, positioning RANK as a central therapeutic target in bone and immune regulation.

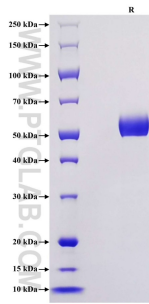
References

1. Zhang, Dong et al. Allergy, asthma & immunology research vol. 16,4 (2024): 399-421.
2. Xue, Jing-Yi et al. Journal of human genetics vol. 66,4 (2021): 371-377.
3. Paolino, Magdalena et al. Nature vol. 589,7842 (2021): 442-447.

Synonyms

CD265, ODFR, Osteoclast differentiation factor receptor, Rank, Receptor activator of NF-KB

Selected Validation Data



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

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.