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Recombinant Mouse TNFRSF11B/Osteoprotegerin Protein

Catalog No.: RP01059 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	18383	O08712

Tags
C-hFc&His

Synonyms
TNFRSF11B;OCIF;OPG;Osteoprotegerin;TR1;TNFRSF11B

Product Information

Source	Purification
HEK293 cells	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
72.71 kDa	100 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Basic Information

Description
Recombinant Mouse TNFRSF11B/Osteoprotegerin Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Leu401) of mouse Osteoprotegerin/TNFRSF11B (Accession #NP_032790.3) fused with an Fc, 6×His tag at the C-terminus.

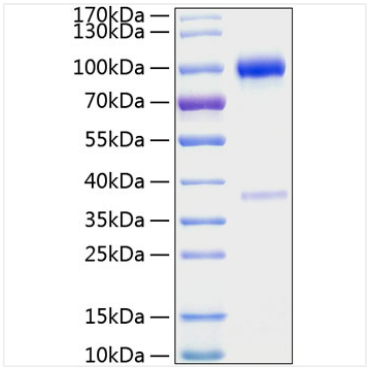
Bio-Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human TNFSF11 at 2 μg/mL (100 μL/well) can bind Recombinant Mouse TNFRSF11B with a linear range of 3-10 ng/mL.|2.Measured by its ability to inhibit TRAIL-mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The ED_{50} for this effect is 0.13-0.54 ng/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

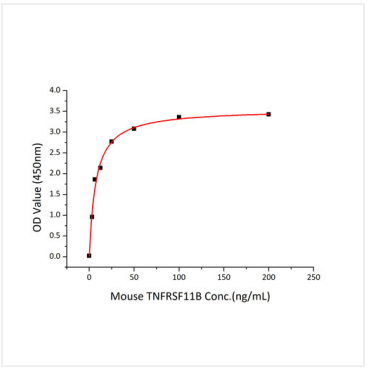
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

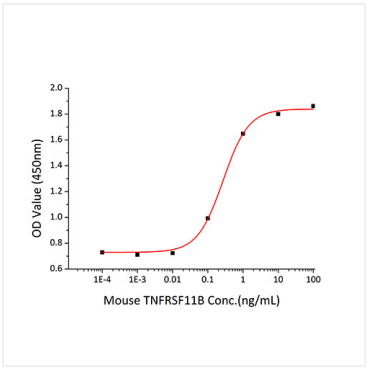
Validation Data



Recombinant Mouse TNFRSF11B/Osteoprotegerin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human TNFSF11 at 2μg/mL (100 μL/well) can bind Recombinant Mouse TNFRSF11B with a linear range of 3-10 ng/mL.



Recombinant Mouse TNFRSF11B inhibit TRAIL-mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The ED_{50} for this effect is 0.13-0.54 ng/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10.