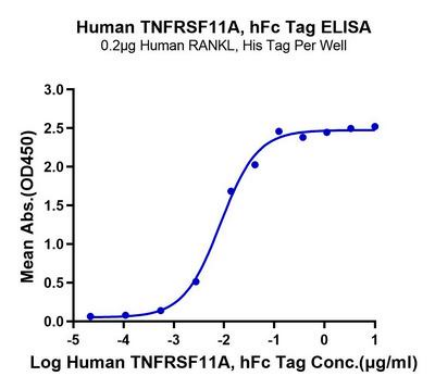
Bioactive HuPro®

TNFRSF11A (Human) Recombinant Protein

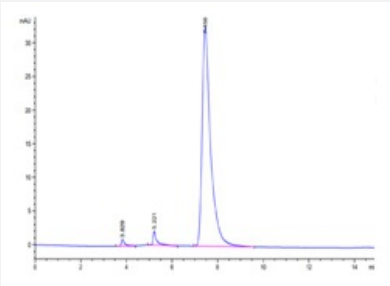
Catalog # P9736 Size 100 ug

Applications



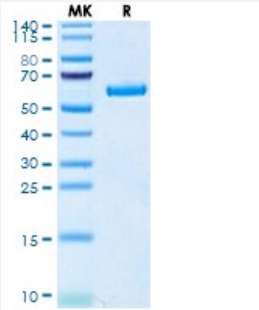
Enzyme-linked Immunoabsorbent Assay

Immobilized Human RANKL, His Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Human TNFRSF11A, hFc Tag with the EC50 of 8.5 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human TNFRSF11A is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human TNFRSF11A on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

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Product Description	Human TNFRSF11A (Q9Y6Q6-1, 30 a.a. - 212 a.a.) partial recombinant protein with hFc tag at C-ter minus expressed in HEK293 cells.
Sequence	IAPPCTSEKHYEHLGRCCNKCEPGKYMSSKCTTTSDSVCLPCGPDEYLDSWNEEDKCLLHKVC DTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRRNTECAPGLGAQHPLQLNKDTVCKPCL AGYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSSSLPARKPPNEPHVYLP
Host	Human
Theoretical MW (kDa)	46.85
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 8.5 ng/mL, messured by ELISA at 2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human TNFRSF11A is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human TNFRSF11A on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human RANKL, His Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Human TNFRSF11A, hFc Tag with the EC50 of 8.5 ng/mL determined by ELISA.
- SDS-PAGE

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Gene Info — TNFRSF11A

Entrez GeneID	8792
Protein Accession#	Q9Y6Q6-1
Gene Name	TNFRSF11A
Gene Alias	CD265, FEO, LOH18CR1, ODFR, OFE, OPTB7, OSTS, PDB2, RANK, TRANCER
Gene Description	tumor necrosis factor receptor superfamily, member 11a, NFKB activator
Omim ID	174810 602080 603499
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptors c an interact with various TRAF family proteins, through which this receptor induces the activation of NF-kappa B and MAPK8/JNK. This receptor and its ligand are important regulators of the interact ion between T cells and dendritic cells. This receptor is also an essential mediator for osteoclast and lymph node development. Studies of the mouse counterpart suggest that this receptor directly mediates the osteoprotegerin ligand (OPGL)-induced osteoclastogenesis in osteoclast precursor cells. [provided by RefSeq
Other Designations	loss of heterozygosity, 18, chromosomal region 1|osteoclast differentiation factor receptor|recepto r activator of nuclear factor-kappa B|tumor necrosis factor receptor superfamily, member 11a|tum or necrosis factor receptor superfamily, member 11a, activat

Pathway

- Cytokine-cytokine receptor interaction

Disease

- Acute Disease
- Alveolar Bone Loss
- Alzheimer disease
- Arthritis
- Asthma
- Bone Diseases

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- Bone Resorption
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Fractures
- Genetic Predisposition to Disease
- Kidney Failure
- Lupus Erythematosus
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteitis Deformans
- Osteoporosis
- Periodontitis
- Prosthesis Failure
- Scoliosis
- Wounds and Injuries

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