

sRANKL recombinant protein

Human sRANKL protein

CATALOG #
AAA332526

HOST
E Coli

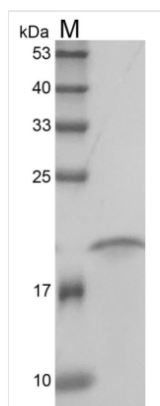
PRODUCT SYNONYMS

sRANKL; Human sRANKL protein; soluble Receptor Activator of NF-kappaB Ligand; TNFSF11; TRANCE (TNF-related activation-induced cytokine); OPGL; ODF (Osteoclast differentiation factor); sRANKL recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	≥98 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20 mM Tris, 150 mM NaCl pH 8.0.
Reconstitution	Use the buffer we provided to reconstitute the lyophilized Human sRANKL protein
Sequence	Amino acid sequence derived from Human sRANKL isoform (O14788) (Glu143-Asp317) was expressed.
Protein length	The recombinant Human sRANKL consists of 175 amino acids(N-Met) and has a predicted molecular mass of 19 kDa. The apparent molecular mass of the Human sRANKL protein is approximately 19 kDa in SDS-PAGE under reducing conditions.
Biological Activity	Immobilized human sRANKL protein at 1ug/mL (100ul/well) can bind Human OPG (C-Fc), The EC50 of Human OPG is 188 ng/mL.
Endotoxin	<0.1 EU per ug of the protein as determined by the LAL method.
Usage notes	Always centrifuge tubes before opening. It is recommended to centrifuge at 12,000 rpm for 1 minute. It is recommended to reconstitute the lyophilized Human sRANKL protein using the buffer we provided not less than 100 ug/mL, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized Human sRANKL protein product should be stored desiccated below -18 degree C for 12 months. Upon reconstitution, the protein should be stored at 4 degree C between 2 -7 days and below -18°C for 3 months. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

IMAGES



SDS-PAGE

Fig. SDS-PAGE analysis of Human sRANKL protein.

ADDITIONAL INFORMATION

Related Product Information for sRANKL recombinant protein	Description: Human sRANKL protein, expressed in E. coli Background: Tumor necrosis factor ligand superfamily member 11, also known as Receptor activator of nuclear factorkappa-B ligand, Osteoprotegerin ligand, TNFSF11, RANKL, TRANCE, OPGL and CD254, is expressed in a variety of cells,including osteoblasts, fibroblasts, activated T-cells and bone marrow stromal cells, is also capable of interacting with a decoyreceptor called OPG. TNFSF11 is involved in a number of fundamental biological processes such as acting as regulator ofinteractions between T-cells and dendritic cells, the regulation of the T-cell-dependent immune response and enhancingbone-resorption in humoral hypercalcemia of malignancy. It augments the ability of dendritic cells to stimulate naive T-cellproliferation.
Product Categories/Family for sRANKL recombinant protein	Cytokines; Cell Culture; Cytology

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507595
NCBI GeneID	8600
NCBI Accession #	NP_003692.1
NCBI GenBank Nucleotide #	NM_003701.3
UniProt Accession #	O14788; O14723; Q96Q17; Q9P2Q3
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 11 isoform 1
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 11
NCBI Official Symbol	TNFSF11
NCBI Official Synonym Symbols	ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2
NCBI Protein Information	tumor necrosis factor ligand superfamily member 11; osteoprotegerin ligand; osteoclast differentiation factor; TNF-related activation-induced cytokine; receptor activator of nuclear factor kappa B ligand; receptor activator of nuclear factor kappa-B ligan
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 11
UniProt Gene Name	TNFSF11
UniProt Synonym Gene Names	OPGL; RANKL; TRANCE; ODF; OPGL; RANKL; TRANCE
UniProt Entry Name	TNF11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tnfsf11-recombinant-protein-e-coli/332526>