

TRANCE/RANK L/TNFSF11 Active Protein | TRANCE/RANKL/TNFSF11 active protein

Recombinant human TRANCE/RANK L/TNFSF11 protein

CATALOG # AAA49005	HOST E coli	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

TRANCE/RANK L/TNFSF11; Recombinant human TRANCE/RANK L/TNFSF11 protein; Tumor necrosis factor ligand superfamily member 11; Osteoclast differentiation factor; ODF; Osteoprotegerin ligand; OPGL; Receptor activator of nuclear factor kappa-B ligand; RANKL; TNF-related activation-induced cytokine; TRANCE; CD254; TRANCE/RANKL/TNFSF11 active protein

PRODUCT SPECIFICATIONS

Host	E coli
Purity/Purification	> 85% by SDS-PAGE
Form/Format	Liquid in. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Concentration	0.5mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	140-317aa
Sequence	IRAEKAM VDGSWLDLAK RSKLEAQPFA HLTINATDIP SGSHKVSLS WYHDRGWAKI SNMTFSNGKL IVNQDGFYYL YANICFRHHE TSGDLATEYL QLMVYVTKTS IKIPSSHTLM KGGSTKYWSG NSEFHFYSIN VGFFFLRSG EEISIEVSNP SLLDPDQDAT YFGAFKVRDI D
Applicable Applications for TRANCE/RANKL/TNFSF11 active protein	Bioactivity, SDS-PAGE
Species	Human
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Preparation and Storage	Can be stored at +4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles

ADDITIONAL INFORMATION

Related Product Information for TRANCE/RANKL/TNFSF11 active protein	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. TNFSF11 also has a function in the immune system, where it is expressed by T helper cells and is thought to be involved in dendritic cell maturation. TNFSF11 is important in bone metabolism. This natural and necessary surface-bound molecule (also known as CD254) found on osteoblasts serves to activate osteoclasts, which are the cells involved in bone resorption. Recombinant human TNFSF11 protein, fused to His-tag at N-terminus, was expressed in E coli and purified by using conventional chromatography.
Product Categories/Family for TRANCE/RANKL/TNFSF11 active protein	Hormones & Cytokines ; Proteins
References	Lam J., et al. (2001) J. Clin. Invest. 108:971-979 Ito S., et al. (2002) J. Biol. Chem. 277:6631-6636

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
Molecular Weight	35,478 Da
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 ligand
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/e-coli-trance-rankl-tnfsf11-active-protein/trance-rank-l-tnfsf11/49005>