

Recombinant Human TNFSF11, His-tagged

Cat. No. TNFSF11-3744H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Soluble Receptor Activator of NFκB Ligand (sRANKL) Mouse Recombinant produced in E.coli is single, non-glycosylated, polypeptide chain containing 179 amino acids and having a total molecular mass of 19.9 kDa. CD254 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	149-317 a.a.
Description	Receptor activator of nuclear factor kappa-B ligand (RANKL), also known as tumor necrosis factor ligand superfamily member 11 (TNFSF11), TNF-related activation-induced cytokine (TRANCE), osteoprotegerin ligand (OPGL), and osteoclast differentiation factor (ODF), is a protein that in humans is encoded by the TNFSF11 gene.
Form	The protein (1 mg/ml) was lyophilized with 10mM NaP, pH 7.5 + 50 NaCl.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE
Sequences of amino acids	PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA SIPSGSHKVT LSSWYHDRGW AKISNMTLSN GKLRVNQDGF YYLYANICFR HHETSGSVPT DYQLQLMVYVV KTSIKIPSSH NLMKGGSTKN WSGNSEFHFY SINVGGF FKL RAGEEISIQV

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SNPSLLDPDQ DATYFGAFKV QDID

Storage

Lyophilized rec. Human sRANKL although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHu sRANKL should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Pathways

Cytokine-cytokine receptor interaction; IL6-mediated signaling events; Osteoblast Signaling; Osteoclast differentiation; Rheumatoid arthritis

GENE INFORMATION

Gene Name

TNFSF11 tumor necrosis factor (ligand) superfamily, member 11 [Homo sapiens]

Official Symbol

TNFSF11

Synonyms

TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2; Tumor necrosis factor ligand superfamily member 11; Osteoclast differentiation factor; Osteoprotegerin ligand; Receptor activator of nuclear factor kappa-B ligand; TNF-related activation-induced cytokine; CD antigen; OTTHUMP00000018328; OTTHUMP00000178585; CD254 antigen

Gene ID

8600

mRNA Refseq

NM_003701

Protein Refseq

NP_003692

MIM

602642

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Uniprot ID	O14788
Chromosome Location	13q14
Function	cytokine activity; receptor activity; tumor necrosis factor receptor binding; tumor necrosis factor receptor superfamily binding
TNFSF11protein	