

Active Recombinant Human TNFSF11 Protein

Cat. No. TNFSF11-254H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF11 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Receptor activator of nuclear factor kappa-B Ligand (RANK Ligand) is a cell-bound marker related to the tumor necrosis factor (TNF) family of proteins. RANK Ligand plays a critical role in bone metabolism and osteoclast differentiation. T cell expression of RANK Ligand promotes dendritic cell maturation.
Bio-activity	Activity of RAW-Blue TM cells, ED ₅₀ ≤ 50 ng/mL
Molecular Mass	Monomer, 19.7 kDa (175 aa)
AA Sequence	EKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGSHKVSLSWYHDRGWAKISN MTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLMVYVTKTSIKIPSSHTLM KGGSTKYWSGNSEFHFYSINVGFFKLRSGEEISIEVSNPSSLDPDQDATYFGAFKV RDID
Endotoxin	≤ 1 EUs/μg, Kinetic LAL
Purity	≥ 95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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1 month when stored at 4 centigrade after reconstituting as directed.
 3 months when stored at -20 to -80 centigrade after reconstituting as directed.

Storage Storage Prior to Reconstitution: -20 centigrade

Storage Buffer Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

Reconstitution Sterile water at 0.1 mg/mL

Shipping Room temperature

Instructions Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

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

Official Symbol TNFSF11

Synonyms TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; tumor necrosis factor ligand superfamily member 11; CD254; ODF; OPGL; RANKL; TRANCE; 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; sOdf; OPTB2; hRANKL2;

Gene ID 8600

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mRNA Refseq	NM_003701
Protein Refseq	NP_003692
MIM	602642
UniProt ID	O14788

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