TNFSF18
Recombinant Human TNFSF18 His

Catalog No.	CRA300A	**Quantity:**	5 µg
	CRA300B		20 µg
	CRA300C		1.0 mg

Alternate Names: Osteostat, TNFSF18, Activation-induced TNFR member Ligand, GITRL,TL6, AITRL, Glucocorticoid-induced TNF-related ligand, hGITRL, Tumor necrosis factor ligand superfamily member 18

Description: Osteostat is the cytokine that binds to TNFRSF18/AITR/GITR, is important for interactions between activated T-lymphocytes and endothelial cells, and may modulate T-lymphocyte survival in peripheral tissues. Osteostat is expressed at high levels in the small intestine, ovary, testis, kidney and endothelial cells after stimulation by lipopolysaccharides.

Osteostat protein is detectable in human microvascular EC and is highly up-regulated by IFN-alpha and IFN-beta. Osteostat inhibits differentiation of osteoclasts from monocytic precursor cells. Osteostat suppresses the early stage of osteoclastogenesis via inhibition of macrophage colony-stimulating factorinduced receptor activator of NF-kappaB (RANK) expression in the osteoclast precursor cells. Osteostat does not inhibit lipopolysaccharide-induced RANK expression in monocytes and dendritic cells, or activation-induced RANK expression in T cells. Osteostat is a novel regulator of osteoclast generation and substantiate the major role played by the endothelium in bone physiology.

Recombinant human TNFSF18 with His Tag contains 125 amino acid residues of human TNFSF18 and 14 additional amino acid residue-His Tag. The amino acid sequence of recombinant human TNFSF18 is homologous to the extracellular domain of human TNF18, Thr53-Ser177.

GeneID: 8995

Source: *E. coli*

Molecular Weight: 15.7 kDa

Formulation: Lyophilized from a sterile filtered solution containing 0.03 M acetate buffer, pH 4.0

Purity: > 95% as determined by RP-HPLC and SDS-PAGE analyses

Endotoxin Level: < 0.1 ng/µg of TNFSF18

Amino Acid Sequence: MRGSHHHHHH GMASTAKEPC MAKFGPLPSK WQMASSEPPC VNKVSDWKLE ILQNGLYLIY GQVAPNANYNDVAPFEVRLY KNKDMIQTLT NKSKIQNVGG TYELHVGDTI DLIFNSEHQV LKNNTYWGII LLANPQFIS

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Reconstitution: **Centrifuge vial prior to opening.** Add 0.2 ml of 0.1 M acetate buffer, pH 4.0 to the vial to fully solubilize the protein. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/ml. In higher concentrations the solubility of this antigen is limited.

Storage & Stability: Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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