
Product Data Sheet

Product Name: AITRL Human, T7
 Cat. No.: GP20033
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Osteostat; TNFSF18; Activation-induced TNFR member Ligand; GITRL; TL6; AITRL; Glucocorticoid-induced TNF-related ligand; hGITRL; Tumor necrosis factor ligand superfamily member 18; MGC138237.		
Amino Acid Sequence	MASMTGGQQM GRGSHMAKFG PLPSKWQMAS SEPPCVNKVS DWKLEILQNG LYLIYGQVAP NANYNDVAPF EVRLYKNKDM IQTLTNKSKI QNVGGTYELH VGDTIDLIFN SEHQVLKNNT YWGIILLANP QFIS.		
Formulation	AITRL protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

Osteostat is the cytokine that binds to TNFRSF18/AITR/GITR and 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 inhibit differentiation of osteoclasts from monocytic precursor cells. Osteostat suppresses the early stage of osteoclastogenesis via inhibition of macrophage colony-stimulating factor-induced 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

AITRL Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 134 amino acids (81-199 a.a) and having a molecular mass of 15kDa. AITRL is fused to a 15 amino acid T7-tag at N-terminus & purified by proprietary chromatographic techniques.

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