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32-1720: msRANKL Recombinant Protein

Alternative Name :	Soluble Receptor Activator of NFkB Ligand,TNFSF11,TRANCE,TNF-related activation-induced cytokine,OPGL,ODF,Osteoclast differentiation factor,Tumor necrosis factor ligand superfamily member 11,Receptor activator of nuclear factor kappa B ligand

Description

Source : Escherichia Coli. sRANKL Mouse Recombinant produced in E.coli is single, non-glycosylated, polypeptide chain containing 174 amino acids and having a total molecular mass of 19.9kDa.CD254 is purified by proprietary chromatographic techniques. RANKL binds to tnfrsf11b/opg and to tnfrsf11a/rank. Osteoclast differentiation and activation factor. augments the ability of dendritic cells to stimulate naive t-cell proliferation. May be an important regulator of interactions between t-cells and dendritic cells and may play a role in the regulation of the t-cell-dependent immune response. sRANKL may also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The protein (1mg/ml) was lyophilized with 10mM Na2PO4, pH 7.5 & 50mM NaCl.
Storage condition :	Lyophilized TNFSF11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 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.
Amino Acid :	PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA SIPSGSHKVT LSSWYHDRGW AKISNMTLSN GKLRVNQDGF YYLYANICFR HHETSGSVPT DYLQLMVYVV KTSIKIPSSH NLMKGGSTKN WSGNSEFHFY SINVGGFFKL RAGEEISIQV SNPSLLDPDQ DATYFGAFKV QDID.

Application Note

It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Measured by its ability to induce osteoclast formation on murine RAW264.7 cells using a concentration of 50ng/ml shown in “Corning® Osteo Assay Surface 24 Well Plates with Transwell® Permeable Supports- A Useful Tool for Co-Culture Studies” by Rebecca M. Wood and Mark Rothenber, corresponding to a specific activity of 20,000Units/mg.

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