



Product Datasheet

Product Name	RANK Ligand Soluble Mouse Recombinant
Cata No	CB500222
Source	<i>Escherichia Coli.</i>
Synonyms	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, RANKL, Osteoprotegerin ligand, CD254 antigen, sRANKL, sOdf.

Description

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.

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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

Measured by its ability to induce osteoclast formation on murine RAW264.7 cells using a concentration of 5.0-10.0 ng/ml.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The protein (1mg/ml) was lyophilized with 10mM NaP, pH 7.5+ 50mM NaCl.

Stability

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.

Please prevent freeze-thaw cycles.

Sequence

PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA
SIPSGSHKVT LSSWYHDRGW AKISNMTLSN
GKLRVNQDGF YYLYANICFR HHETSGSVPT
DYLQLMVYVV KTSIKIPSSH NLMKGGSTKN
WSGNSEFHFY SINVGFFKL RAGEEISIQV
SNPSLLDPDQ DATYFGAFKV QDID

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