



Recombinant Human RANK Ligand
(soluble RANK Ligand)

Catalog Number: 100-19
Accession Number: O14788

Specifications and Uses:

Alternate Names: TNFSF11, TRANCE, OPGL, ODF

Description:

Receptor Activator of NF- κ B Ligand (RANKL) is a cell-bound marker (CD254) related to the TNF family of proteins. RANKL plays a critical role in bone metabolism, particularly osteoclast differentiation. In addition, RANKL is expressed by some T cells is thought to promote dendritic cell maturation. Recombinant soluble human RANKL is a non-glycosylated protein, containing 176 amino acids, with a molecular weight of 20 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant soluble human RANKL is lyophilized from a concentrated (1mg/mL) solution containing 10 mM Na₂PO₄, pH 8.0.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically \geq 98%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.

Biological Activity:

The activity is determined by a dose-dependent stimulation of IL-8 production in human PBMC and is typically less than 100 ng/mL.

AA Sequence:

MEKAMVDGSW LD LAKRSKLE AQPFAHLTIN ATDIPSGSHK VSLSSWYHDR GWAKISNMTE SNGKLIVNQD
GFYYLYANIC FRHHETSGDL ATEYLQLMVY VTKTSIKIPS SHTLMKGGST KYWSGNSEFH FYSINVGGF
KLRSGEEISI EVSNPSSLDP DQDATYFGAF KVRDID

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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