
Product Data Sheet

Product Name: Recombinant RANKL, Mouse, Animal-Free

Cat. No.: GC26626

Batch No.: 1

Product Data

Purity	>98% as determined by SDS-PAGE.	Source	
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Blue Ice
Synonyms	receptor activator of nuclear factor kappa-B ligand, soluble Receptor Activator of NF- κ B Ligand, TNFSF11, TRANCE (TNF-Related Activation-induced Cytokine), OPGL, ODF (Osteoclast Differentiation Factor), CD254,sRNAK Ligand		

Formulation

Introduction

Receptor activator of NF- κ B (RANK) ligand (RANKL) is type II transmembrane protein with an extracellular domain at the carboxy terminus of TNF cytokine superfamily. RANKL is a 19.8 kDa protein containing 317 residues and high expressed in T cells and T cell rich organs, such as thymus and lymph nodes. RANKL-RANK (RANKL receptor) plays an important role in bone metabolism, dysregulation, and immune system. RANKL deficiencies in mice or humans are associated with abnormally increase bone density and blemish in lymphoid organogenesis.

Biological Activity

Measure by its ability to induce osteoclast differentiation in RAW264.7 cells. The ED₅₀ for this effect is <2 ng/mL.

Stability

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

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