

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for 009-001-C22 rHuman RANKL Protein

Overview

Description:	RANKL Human Recombinant Protein - 009-001-C22
Item No.:	009-001-C22
Size:	10 μg
Origin:	Human
Expressed in:	E. coli

Product Details

The secreted cytokine RANKL (Receptor Activator of Nuclear factor kappa-B Ligand) is critically involved in osteoclastic differentiation and activation and in the regulation of specific immunity. RANKL exists as a homotrimer, is glycosylated, and occurs in 3 forms: cell-bound RANKL, which is expressed by osteoblast lineage cells, soluble RANKL (sRANKL), which is expressed by activated T lymphocytes, and a truncated ectodomain form derived from the cell-bound RANK Ligand, which is enzymatically processed by TACE (TNF-alpha converting enzyme (TACE; ADAM-17)). All three forms stimulate their specific receptor, RANK, which is located on osteoclastic and dendritic cells. RANKL binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. RANKL augments the ability of dendritic cells to stimulate naive T-cell proliferation. It 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. It may also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. Expression of RANKL is highest in the peripheral lymph nodes, weak in spleen, peripheral blood leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid and is up-regulated by T-cell receptor stimulation. RANKL is secreted in the soluble form. Defects in TNFSF11 cause osteopetrosis. Recombinant human soluble RANKL produced in E.coli is a single, nonglycosylated polypeptide chain containing 176 amino acids and having a molecular mass of 20,006 Daltons.

Synonyms:	Rank Ligand, Tumor necrosis factor ligand superfamily member 11, Receptor activator of nuclear factor kappa-B ligand, TNF-related activation-induced cytokine, TRANCE, Osteoprotegerin ligand, OPGL, Osteoclast differentiation factor, ODF, CD254
Species of Origin:	Human

Species of Origin:HumanExpressed in:E. coliType:Recombinant ProteinLow Endotoxin:Yes

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Target Details

Gene Name:	TNFSF11
Purity/Specificity:	Purity was determined to be greater than 98% as determined by analysis by RP-HPLC and by reducing and non-reducing SDS-PAGE.
Relevant Links:	UniProtKB - O14788

Application Details

Application Note:	RANKL Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-RANKL in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	RANK ligand is fully biologically active when compared to standard. The activity is determined by activity of RAW-Blue ^{M} cells using a concentration of \leq 50ng/ml. Endotoxin level as measured by LAL typically \leq 1 EUs/ μ g.

Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, pH 7.5
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	10μl (10-100μl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition: Ambient

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Storage Condition: Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility.

This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing

at room temperature.

Expiration: Expiration date is six (6) months from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

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