9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

RANK Human

RANK Human Recombinant
GRF0357

Product Overview

Name	RANK Human
Description	
RANK Human Recombinant	
Accession (Primary)	Q9Y6Q6
Synonyms	
TNFRSF11A, ODFR, RANK, Tumor Necrosis Factor Receptor Superfamily, Member 11a, Activator Of NFKB, Receptor Activator Of Nuclear Factor-Kappa B, CD265 Antigen, LOH18CR1, TRANCER, CD265	
Introduction	
sRANK Receptor is a part of of the TNF superfamily of ligands and receptors which participates in the regulation of specific immunity and bone turnover. sRANK Receptor was originally acknowledged as a dendritic-cell-membrane protein, which by interacting with RANKL augments the capacity of dendritic cells to stimulate naive T cell proliferation and to endorse the survival of RANK and T cells. The full length human RANK cDNA encodes a type I transmembrane protein of 616 amino acids with a predicted 183 amino acid extracellular domain and a 383 amino acid cytoplasmic domain. sRANK Receptor is also expressed in a various tissues including skeletal muscle, thymus, liver, colon, small intestine and adrenal gland.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0 and 150mM NaCl.	
Stability	
Lyophilized RANK although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution sRANK Receptor 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.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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QIAPPCTSEK HYEHLGRCCN KCEPGKYMSS KCTTTSDSVC LPCGPDEYLD SWNEEDKCLL HKVCDTGKAL VAVVAGNSTT PRRCACTAGY HWSQDCECCR RNTECAPGLG AQHPLQLNKD TVCKPCLAGY FSDAFSSTDK CRPWTNCTFL GKRVEHHGTE KSDAVCSSSL PARK.

Biological Activity

The ED 50 as determined by its ability to inhibit sRANK Ligand induced nuclear factor kappa B (NFkappaB) in RAW 264.7 cells is less than 50 ng/ml, corresponding to a specific activity of > 2.0 × 10 4 IU/mg in the presence of 15 ng/ml of recombinant sRANK Ligand.

Solubility

It is recommended to reconstitute the lyophilized RANK in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

RANK Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9Y6Q6)