

GFH19AF Recombinant Human RANK Ligand (Animal-Free)

Description

Receptor activator of nuclear factor kappa-B Ligand (RANK Ligand) is a cell-bound marker related to the Tumor Necrosis Factor (TNF) family of proteins. RANK Ligand plays a critical role in bone metabolism and osteoclast differentiation. T cell expression of RANK Ligand promotes dendritic cell maturation.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	175 aa
Molecular Weight	19.7 kDa
Source	E. coli
Accession Number	O14788
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

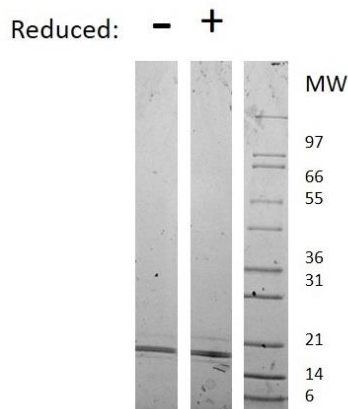
Specifications

Alternative Names	Receptor activator of nuclear factor kappa-B Ligand, RANKL, RANK-L, RANK-ligand, TNFSF11, TRANCE, OPGL, ODF
Biological Activity	Human RANK Ligand (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the activity of RAW-Blue™ cells and it is typically less than 50 ng/ml. This corresponds to an expected specific activity of 2.0 x 10 ⁴ units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	EKAMVDGSWL DLAKRSKLEA QPFAHLTINA TDIPSGSHKV SLSSWYHDRG WAKISNMTFS NGKLIVNQDG FYYLYANICF RHHETSGDLA TEYLQLMVYV TKTSIKIPSS HTLMKGGSTK YWGSNSEFHF YSINVGGFFK LRSGEEISIE VSNPSLLDPD QDATYFGAFK VRDID

Preparation and 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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human RANK Ligand has a predicted Mw of 19.7 kDa.