

## GFH19 Recombinant Human RANK Ligand

### 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.

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

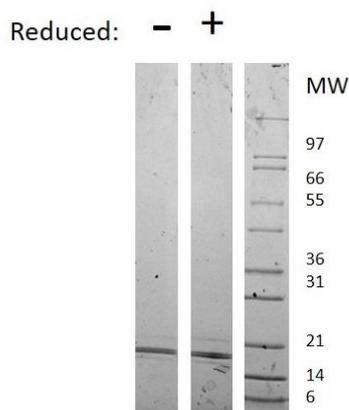
### Specifications

<b>Alternative Names</b>	Receptor activator of nuclear factor kappa-B Ligand, RANKL, RANK-L, RANK-ligand, TNFSF11, TRANCE, OPGL, ODF
<b>Biological Activity</b>	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 <sup>4</sup> units/mg.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	EKAMVDGSWL DLAKRSKLEA QPFAHLTINA TDIPSGSHKV SLSSWYHDRG WAKISNMTFS NGKLIVNQDG FYYLYANICF RHHETSGDLA TEYLQLMVYV TKTSIKIPSS HTLMKGGSTK YWSGNSEFHF YSINVGGFFK LRSGEISIE VSNPSSLDPD QDATYFGAFK VRDID

### Preparation and Storage

<b>Reconstitution</b>	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.
<b>Stability and Storage</b>	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.