Recombinant Human
GITR Ligand/TNFSF18
Catalog Number: 6987-GL

**DESCRIPTION**

**Source**
Chinese Hamster Ovary cell line, CHO-derived

**Hemagglutinin Tag**
YPYDVPDYA

**GCN4-IZ**

**GGSGGGSGGGS**

**Human GITR Ligand**
(Glu74-Ser199)

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<tr>
<th>N-terminal Sequence</th>
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**Structure / Form**
Non-covalently-linked trimer

**Predicted Molecular Mass**
19.6 kDa (monomer)

**SPECIFICATIONS**

**SDS-PAGE**
21-30 kDa, reducing conditions

**Activity**
The ED<sub>50</sub> for this effect is 4-20 ng/mL. The activity can be enhanced approximately 10-fold in the presence of Mouse Anti-Hemagglutinin/HA Peptide Monoclonal Antibody (Catalog # MAB060).

**Endotoxin Level**
<0.10 EU per 1 μg of the protein by the LAL method.

**Purity**
>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

**Formulation**
Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

**PREPARATION AND STORAGE**

**Reconstitution**
Reconstitute at 100 μg/mL in PBS containing at least 0.1% human or bovine serum albumin.

**Shipping**
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

GITR Ligand, also known as TNFSF18 and TL6, is an approximately 30 kDa type II transmembrane glycoprotein in the TNF superfamily (1). Human GITR Ligand consists of a 50 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 128 aa extracellular domain (ECD) (2, 3). Within the ECD, human GITR Ligand shares 56% and 60% aa sequence identity with mouse and rat GITR Ligand, respectively. GITR Ligand is expressed on antigen presenting cells, consists of a 50 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 128 aa extracellular domain (ECD) (2, 3). Within the ECD, human GITR Ligand shares 56% and 60% aa sequence identity with mouse and rat GITR Ligand, respectively. GITR Ligand is expressed on antigen presenting cells,

**References:**