

# Human GITR Ligand/TNFSF18 Trimer Protein

Cat. No. FSF-HM418

## Description

<b>Source</b>	Recombinant Human GITR Ligand/TNFSF18 Trimer Protein is expressed from HEK293 with His tag and flag tag at the N-Terminus. It contains Gln50-Ser177.
<b>Accession</b>	Q9UNG2
<b>Molecular Weight</b>	The protein has a predicted MW of 47.5 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

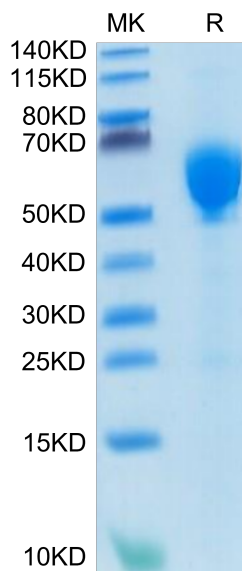
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Glucocorticoid-induced TNFR-related protein (TNFRSF18, GITR, CD357), expressed by T cells, and its ligand (TNFSF18, GITRL), expressed by myeloid populations, provide co-stimulatory signals that boost T cell activity. Due to the important role that GITR plays in regulating immune functions, agonistic stimulation of GITR is a promising therapeutic concept.

## Assay Data

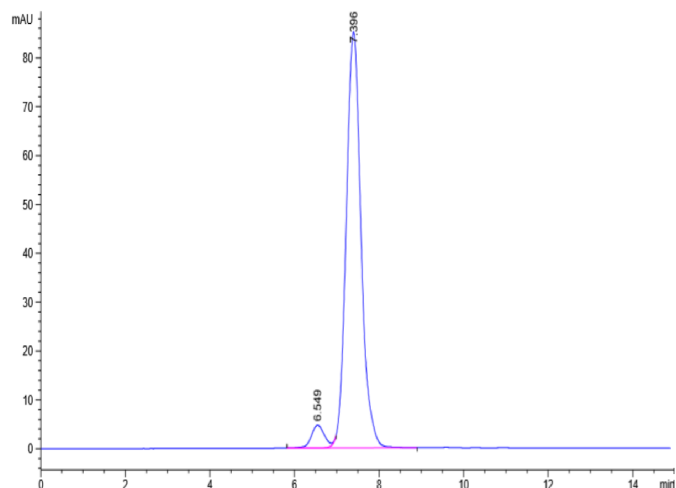
### Bis-Tris PAGE



Human GITR Ligand Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

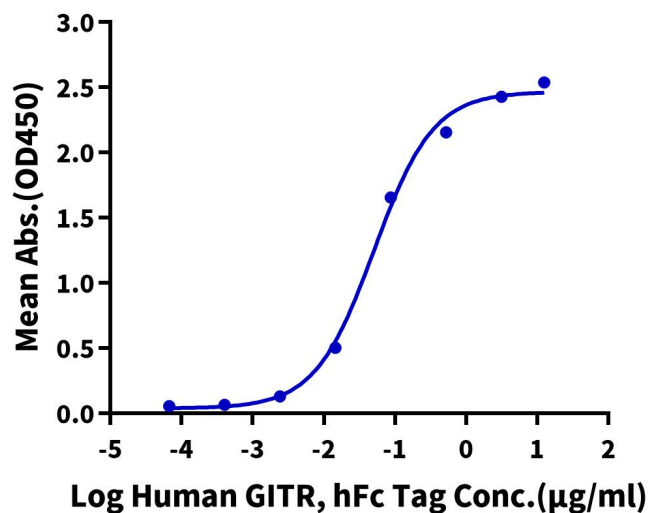


The purity of Human GITR Ligand Trimer is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human GITR Ligand Trimer, His Tag ELISA**

0.5 µg Human GITR Ligand Trimer, His Tag Per Well



Immobilized Human GITR Ligand Trimer, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Human GITR, hFc Tag with the EC50 of 50.8 ng/ml determined by ELISA.