

Human GITR Ligand/TNFSF18 Trimer Protein



Cat. No. FSF-HM218

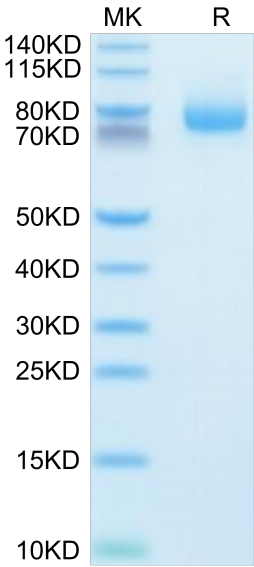
| Description | |
|------------------|--|
| Source | Recombinant Human GITR Ligand/TNFSF18 Trimer Protein is expressed from HEK293 with monomeric hFc tag at the N-Terminus. It contains Gln50-Ser177 trimer design. |
| Accession | Q9UNG2 |
| Molecular Weight | The protein has a predicted MW of 70.2 kDa. Due to glycosylation, the protein migrates to 75-85 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1 EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

| Formulation and Storage | |
|-------------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| Storage | -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%.

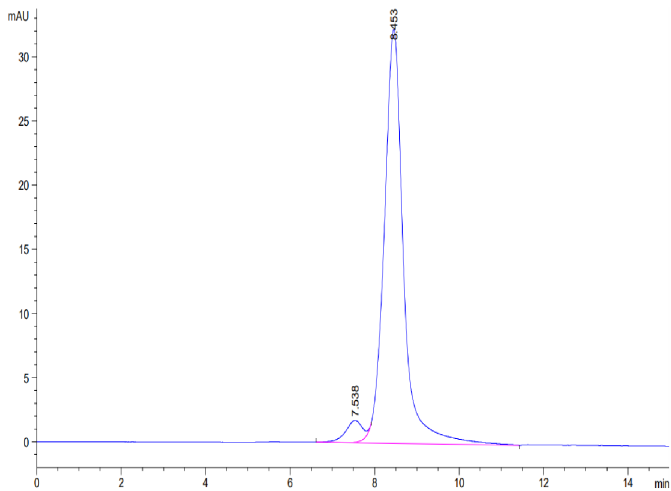
SEC-HPLC

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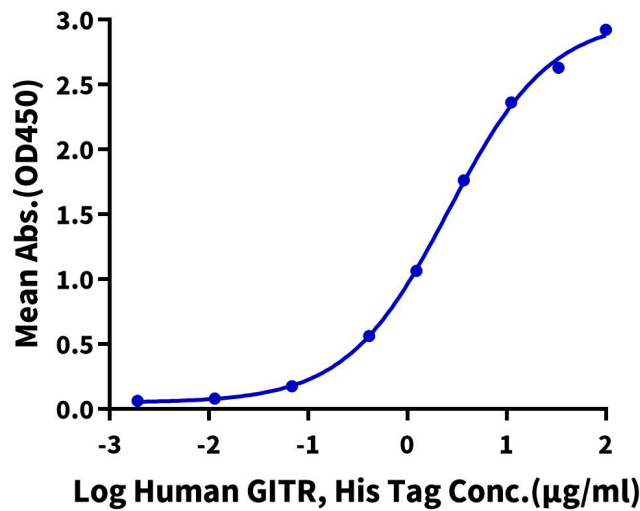
Assay Data



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

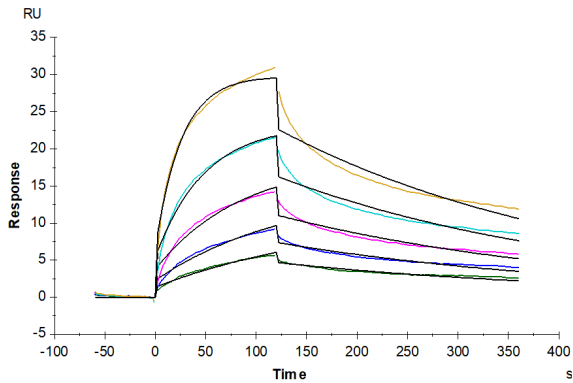
ELISA Data

Human GITR Ligand Trimer, hFc Tag ELISA
0.5µg Human GITR Ligand Trimer, hFc Tag Per Well



Immobilized Human GITR Ligand Trimer, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human GITR, His Tag with the EC50 of 2.60µg/ml determined by ELISA (QC Test).

SPR Data



Human GITR, His Tag captured on CM5 Chip via Anti-his antibody can bind Human GITR Ligand Trimer, hFc Tag with an affinity constant of 4.47 nM as determined in SPR assay (Biacore T200).