

Human GITR/TNFRSF18 Protein



Cat. No. GTR-HM101

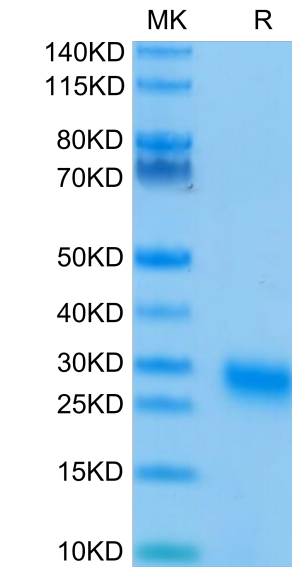
| Description      |                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Human GITR/TNFRSF18 Protein is expressed from HEK293 with His tag at the C-Terminus.<br>It contains Gln26-Glu161.      |
| Accession        | Q9Y5U5-1                                                                                                                           |
| Molecular Weight | The protein has a predicted MW of 15.4 kDa. Due to glycosylation, the protein migrates to 25-28 kDa based on Bis-Tris PAGE result. |
| Endotoxin        | Less than 1EU per µg by the LAL method.                                                                                            |
| Purity           | > 95% as determined by Bis-Tris PAGE<br>> 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                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GITR (glucocorticoid-induced tumor necrosis factor receptor), also known as AITR and TNFRSF18, is a 40 kDa transmembrane glycoprotein that functions in immune regulation. GIRT is a receptor for TNFSF18. Seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway. |  |

Assay Data

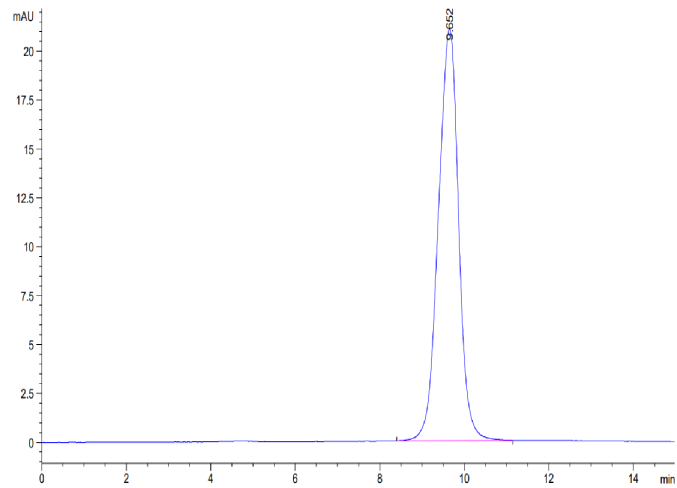
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

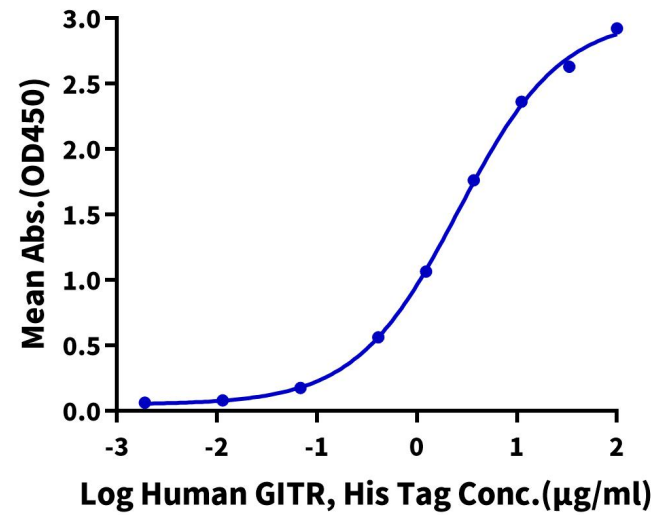


The purity of Human GITR is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human GITR, His Tag ELISA

0.5µg Human GITR Ligand Trimer, hFc Tag Per Well

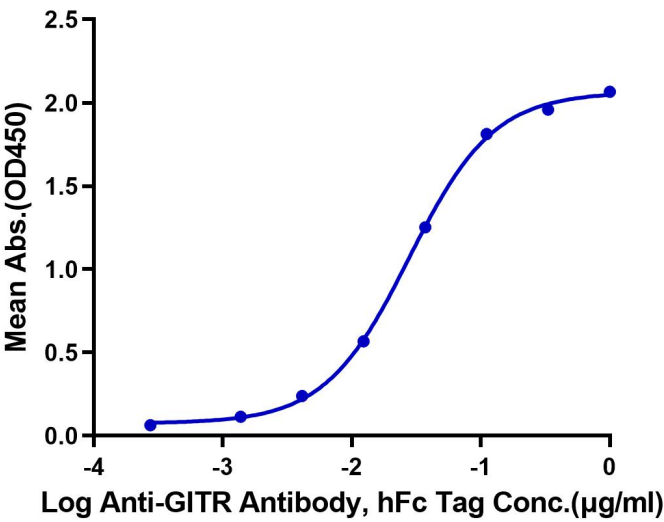


Immobilized Human GITR Ligand Trimer, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human GITR, His Tag with the EC50 of 2.60µg/ml determined by ELISA (QC Test).

ELISA Data

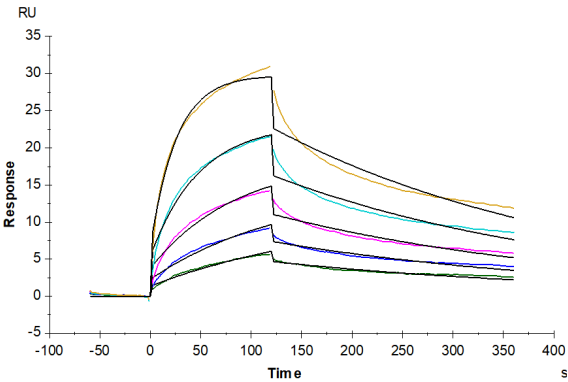
Assay Data

Human GITR, His Tag ELISA  
0.05µg Human GITR, His Tag Per Well



Immobilized Human GITR, His Tag at 0.5µg (100µl/Well) on the plate. Dose response curve for Anti-GITR Antibody, hFc Tag with the EC50 of 27.9ng/ml determined by ELISA.

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).