## **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.
	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
	> 95% as determined by HPLC

# Formulation and Storage

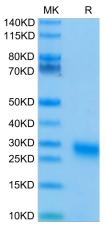
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°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.

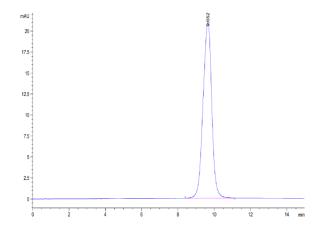
## **Assay Data**

### **Bis-Tris PAGE**



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

## **SEC-HPLC**



The purity of Human GITR is greater than 95% as determined by SEC-HPLC.  $\label{eq:second} % \begin{center} \$ 

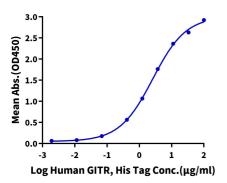
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## **Assay Data**

### **ELISA Data**

## **Human GITR, His Tag ELISA**

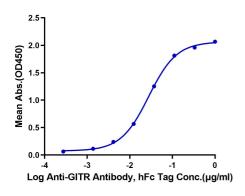
0.5μg Human GITR Ligand Trimer, hFc Tag Per Well



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).

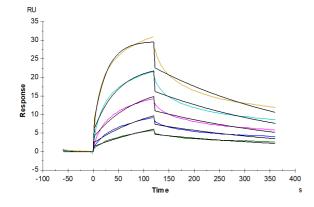
### **ELISA Data**

#### 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).