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.
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 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

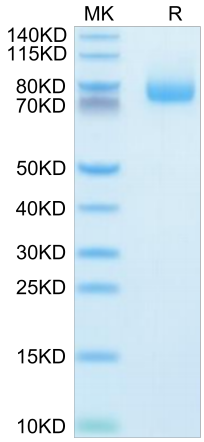
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled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

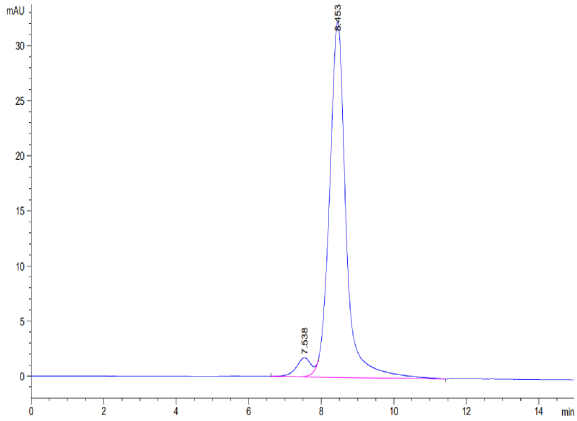
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



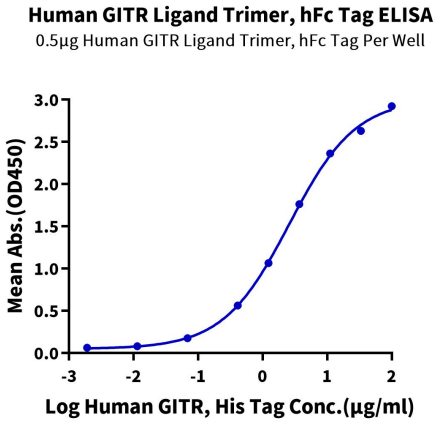
The purity of Human GITR Ligand (Trimer) is greater than 95% as determined by SEC-HPLC.

Human GITR Ligand/TNFSF18 Trimer Protein

Cat. No. FSF-HM218

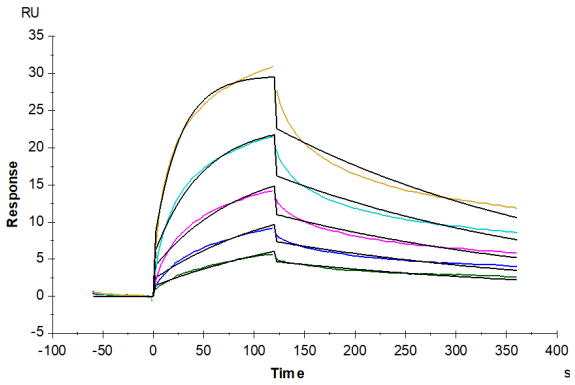
Assay Data

ELISA Data



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).