

Human TIGIT Protein, Ultra Low Endotoxin

Cat. No. TIG-HM210-UL

Description

Source	Recombinant Human TIGIT Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus. It contains Met22-Pro141.
Accession	Q495A1-1
Molecular Weight	The protein has a predicted MW of 39.8 kDa. Due to glycosylation, the protein migrates to 48-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

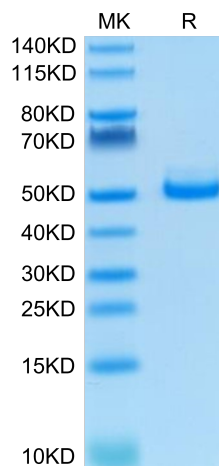
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

TIGIT, also called Vstm3, Vsig9, and WUCAM, is a transmembrane protein in the CD28 family of the Ig superfamily proteins. IGIT is expressed at low levels on peripheral memory and regulatory CD4 T-cells and NK cells and is up-regulated following activation of these cells.

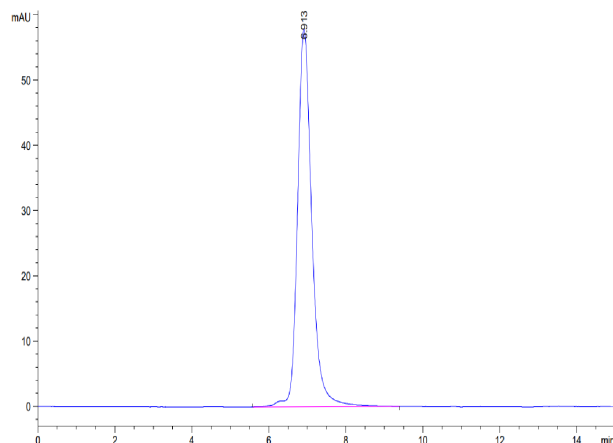
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



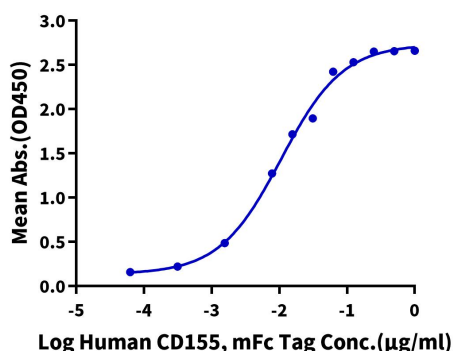
The purity of Human TIGIT is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human TIGIT, hFc Tag ELISA

0.2µg Human TIGIT, hFc Tag Per Well

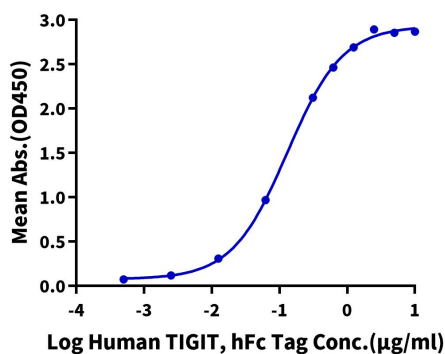


Immobilized Human TIGIT, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human CD155, mFc Tag with the EC50 of 10.6ng/ml determined by ELISA (QC Test).

ELISA Data

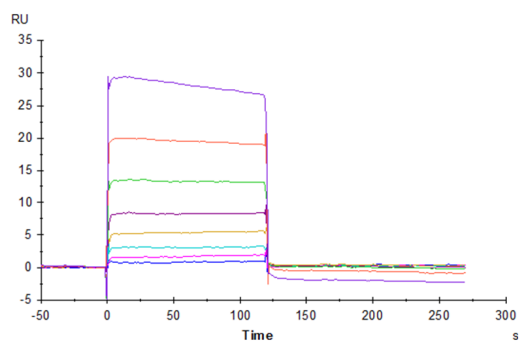
Human TIGIT, hFc Tag ELISA

0.2µg Biotinylated Human Nectin-2, His Tag Per Well



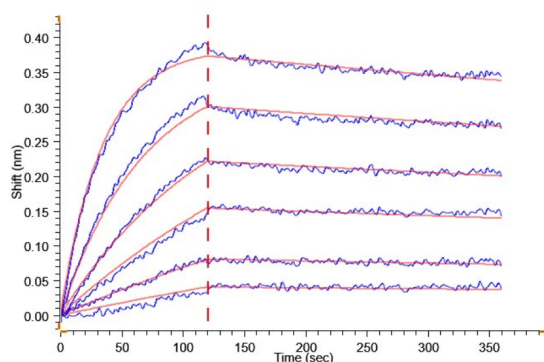
Immobilized Biotinylated Human Nectin-2, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human TIGIT, hFc Tag with the EC50 of 0.13µg/ml determined by ELISA.

SPR Data



Human TIGIT, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human Nectin-2, His-Avi Tag with an affinity constant of 1.84 µM as determined in SPR assay (Biacore T200).

BLI Data



Loaded Human TIGIT, hFc Tag on Anti-Human IgG Fc Gen II (HFc II) -Biosensor can bind Biotinylated Human CD155, His-Avi Tag (Cat. CD1-HM455B) with an affinity constant of 0.72 nM as determined in BLI assay.