

# Human TIGIT Protein

Cat. No. TIG-HM210

## Description

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

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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.

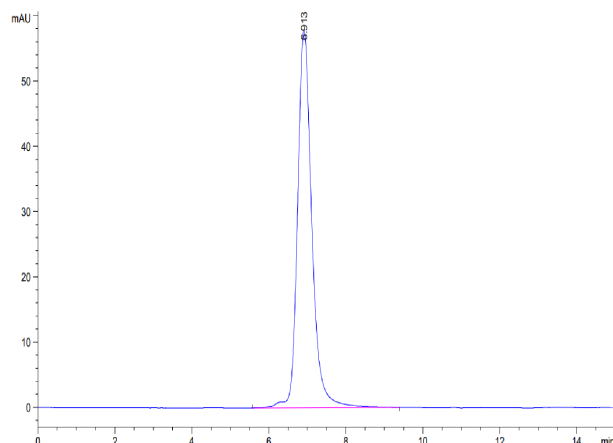
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC



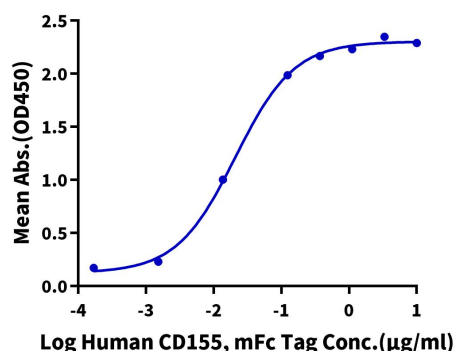
The purity of Human TIGIT is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human TIGIT, hFc Tag ELISA**

0.1µg Human TIGIT, hFc Tag Per Well

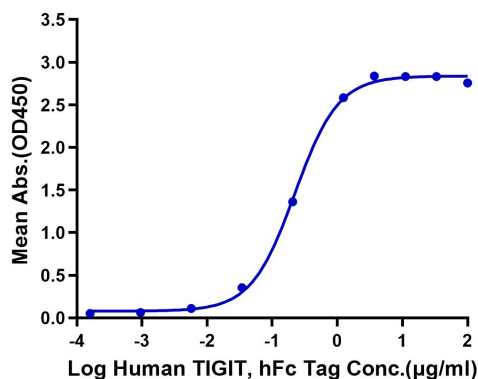


Immobilized Human TIGIT, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human CD155, mFc Tag with the EC50 of 20.9ng/ml determined by ELISA (QC Test).

ELISA Data

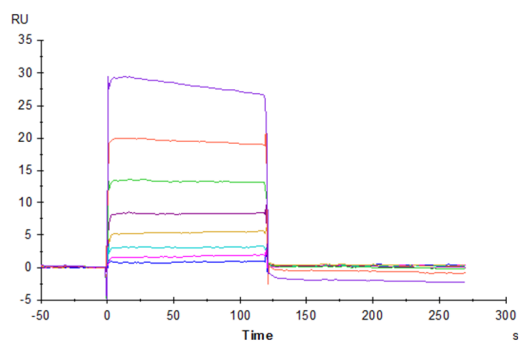
**Human TIGIT, hFc Tag ELISA**

0.1µg Biotinylated Human Nectin-2, His Tag Per Well



Immobilized Biotinylated Human Nectin-2, His Tag at 1µg/ml (100µl/Well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human TIGIT, hFc Tag with the EC50 of 0.22µg/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).