

Rat TIGIT Protein, Ultra Low Endotoxin

Cat. No. TIG-RM310-UL

Description	
Source	Recombinant Rat TIGIT Protein is expressed from HEK293 with mFc (IgG2a) tag at the C-terminus. It contains Ala17-Gln136.
Accession	D3ZTQ2
Molecular Weight	The protein has a predicted MW of 39.47 kDa. Due to glycosylation, the protein migrates to 50-60 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

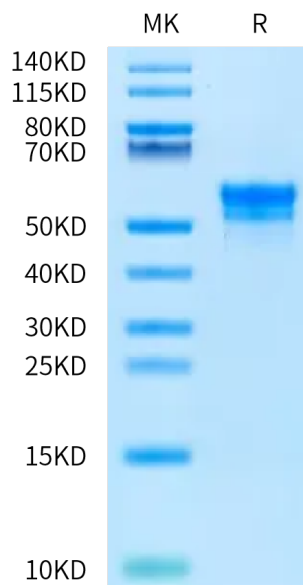
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

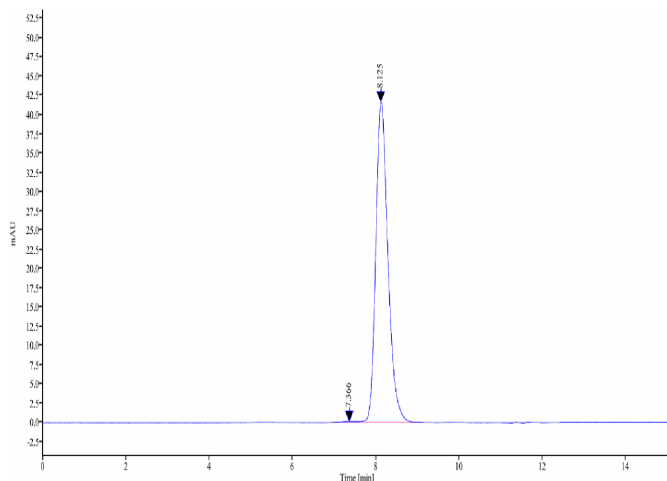
Bis-Tris PAGE



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

SEC-HPLC

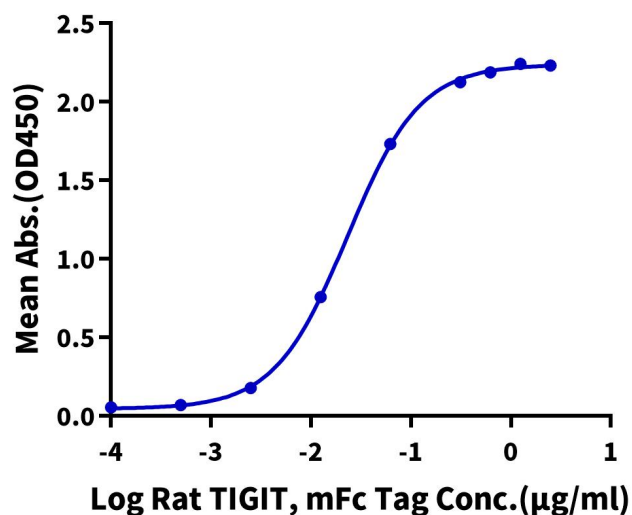
Assay Data



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

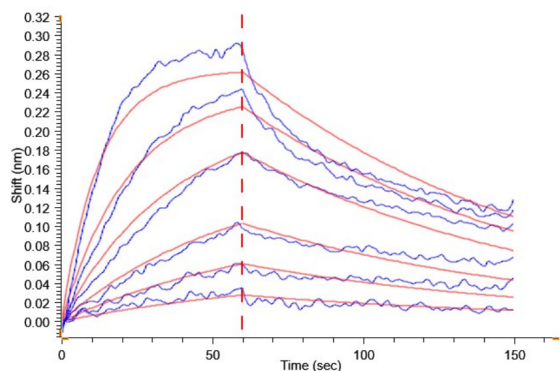
ELISA Data

Rat TIGIT, mFc Tag ELISA
0.1µg Mouse CD155, His Tag Per Well



Immobilized Mouse CD155, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Rat TIGIT, mFc Tag with the EC50 of 23.1ng/ml determined by ELISA.

BLI Data



Loaded Mouse CD155, His Tag on Anti-His-Biosensor can bind Rat TIGIT, mFc Tag with an affinity constant of 6.93 nM as determined in BLI assay .