Mouse TIGIT Protein, His Tag (MALS verified)

Catalog # TIT-M52E6

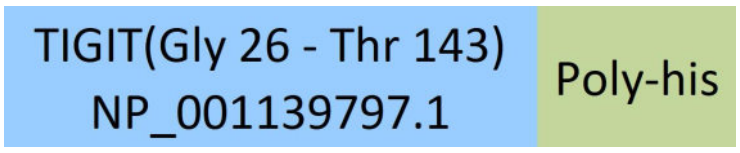
Synonym

TIGIT,VSIG9,VSTM3

Source

Mouse TIGIT, His Tag(TIT-M52E6) is expressed from human 293 cells (HEK293). It contains AA Gly 26 - Thr 143 (Accession # NP_001139797.1).
Predicted N-terminus: Gly 26

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 14.8 kDa. The protein migrates as 18-30 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

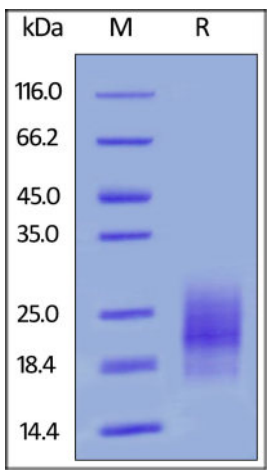
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

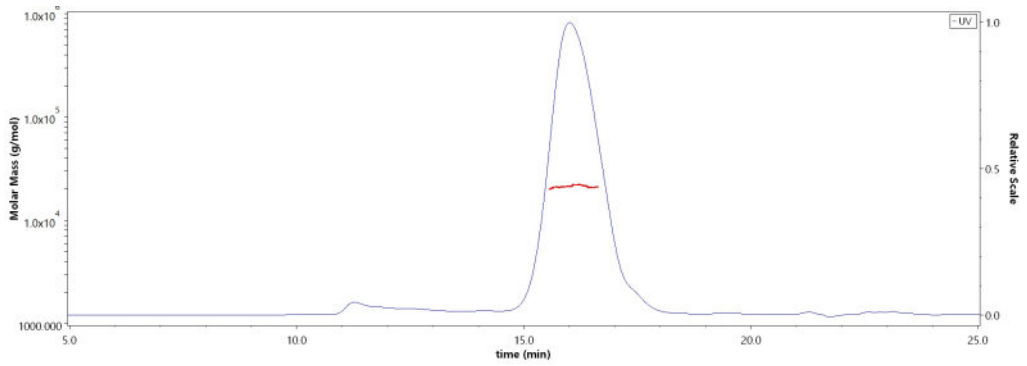
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



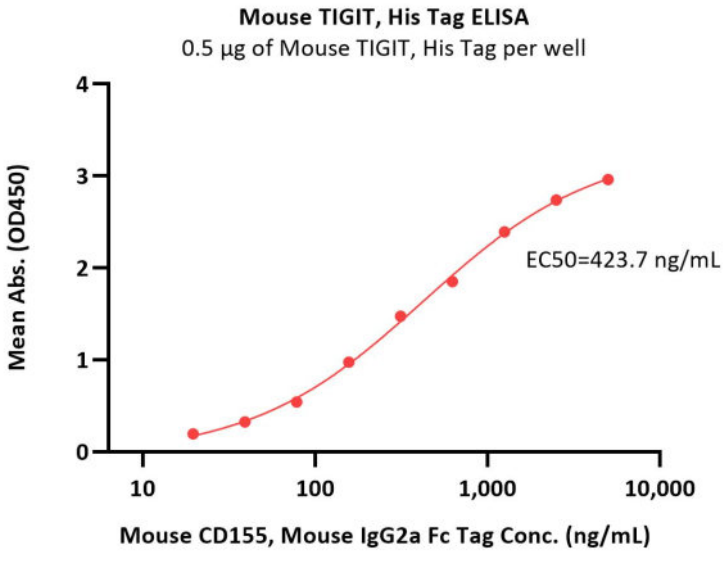
Mouse TIGIT, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Mouse TIGIT, His Tag (Cat. No. TIT-M52E6) is more than 90% and the molecular weight of this protein is around 16-26 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Mouse TIGIT, His Tag (Cat. No. TIT-M52E6) at 5 μg/mL (100 μL/well) can bind Mouse CD155, Mouse IgG2a Fc Tag (Cat. No. CD5-M5254) with a linear range of 20-625 ng/mL (QC tested).

Background

T-cell immunoreceptor with Ig and ITIM domains (TIGIT) is also known as V-set and immunoglobulin domain-containing protein 9 (VSIG9), V-set and transmembrane domain-containing protein 3 (VSTM3),which belongs to single-pass type I membrane protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT 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 (at protein level). TIGIT binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.