## For Research Use Only

## Recombinant Mouse TIGIT protein (His Tag)



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Catalog Number: Eg0925

**Technical Specifications** 

**Basic Information** 

Species: Mouse EC50:

16-65 ng/mL

Purity: >95 %, SDS-PAGE

Tag: His Tag

Purity: >95 %, SDS-PAGE

Endotoxin Level: <0.1 EU/  $\mu$  g protein, LAL method

HEK293-derived Mouse TIGIT protein Gly26-Thr143 (Accession# NP\_001139797.1) with a His tag at the C-

GeneID: 100043314

**Accession:** 

NP\_001139797.1

**Predicted Molecular Mass:** 

13.7 kDa

**SDS-PAGE:** 

15-25 kDa, reducing (R) conditions

Lyophilized from 0.22  $\,\mu$  m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as

protectants before lyophilization.

**Biological Activity** 

Immobilized Mouse TIGIT (His tag) at 1 µg/mL (100 µL/well) can bind Mouse CD155 (hFc tag) with a linear range of 16-65 ng/mL.

Storage and Shipping

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Until expiry date, -20°C to -80°C as lyophilized proteins.

3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended

temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

TIGIT (T-cell immunoreceptor with Ig and ITIM domains), also known as VSIG9 or VSTM3, is an immune receptor expressed on T cells, including Treg and memory subsets, as well as on NK cells. It contains an expressed on Leas, including freg and memory subsets, as well as on NK cells. It contains an immunoglobulin variable domain, a transmembrane domain, and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT binds to poliovirus receptor (PVR, also called CD155) with high affinity, and also to PVRL2 (CD112) with lower affinity. The interaction of TIGIT with PVR on dendritic cells increases the secretion of IL-10 and decreases the secretion of proinflammatory cytokine and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells. TIGIT can inhibit NK cytotoxicity directly through its ITIM.

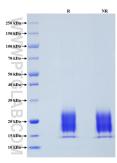
References

1.Xin Yu, et al. (2009). Nat Immunol. 10(1):48-57. 2.Noa Stanietsky, et al. (2009). Proc Natl Acad Sci U S A. 106(42):17858-63. 3.Joe-Marc Chauvin, et al. (2020). J Immunother Cancer. 8(2):e000957.

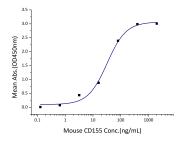
**Synonyms** 

TIGIT, Vstm3

## **Selected Validation Data**



Purity of Recombinant Mouse TIGIT was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Mouse TIGIT (His tag) at 1  $\,\mu$  g/mL (100  $\,\mu$  L/well) can bind Mouse CD155 (hFc tag) with a linear range of 16-65 ng/mL.