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# Recombinant Mouse TIGIT Protein (Fc Tag)

Catalog Number: PKSM040427

Note: Centrifuge before opening to ensure complete recovery of vial contents.

# **Description**

**Species** Mouse

Source HEK293 Cells-derived Mouse TIGIT protein Met1-Gly141, with an C-terminal hFc

Calculated MW 39.8 kDa Observed MW 52 kDa Accession PP86176

**Bio-activity** Immobilized mouse PVR-His at 10 μg/ml (100 μl/well) can bind mouse TIGIT-Fc, The

 $EC_{50}$  of mouse TIGIT-Fc is 0.25-0.55 µg/ml.

## **Properties**

> 90 % as determined by reducing SDS-PAGE. **Purity** 

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 Storage

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

This product is provided as lyophilized powder which is shipped with ice packs. Shipping

Lyophilized from sterile PBS, pH 7.4 **Formulation** 

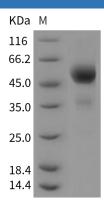
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Please refer to the printed manual for detailed information. Reconstitution

#### Data



> 90 % as determined by reducing SDS-PAGE.

#### **Background**

### **Elabscience Bionovation Inc.**



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TIGIT, also known as V-set and transmembrane domain-containing protein 3 (VSTM3) or V-set and immunoglobulin domain-containing protein 9 (VSIG9) is a new surface protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT is expressed on regulatory, memory, activated T cells and NK cells. It binds PVR with high affinity, and PVRL2 with lower affinity, but not PVRL3. Knockdown of TIGIT with siRNA in human memory T cells did not affect T cell responses, however, TIGIT inhibits NK cytotoxicity directly through its ITIM. TIGIT suppresses T cell activation by promoting the generation of mature immunoregulatory dendritic cells. The binding of PVR to TIGIT on human dendritic cells enhanced the production of IL-10 and diminished the production of IL-12p40. In addition, TIGIT counter inhibits the NK-mediated killing of tumor cells and protects normal cells from NK-mediated cytotoxicity thus providing an "alternative self" mechanism for MHC class I inhibition.

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