

## 37-1270: Human TIGIT / VSTM3 Recombinant Protein (Fc Tag)(Discontinued)

**Reactivity :** Human

**Alternative Name :** VSIG9 Protein, VSTM3 Protein, WUCAM Protein,

### Description

#### Source : HEK293 Cells

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-1 and diminished the production of IL-12p4. 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. Cancer Immunotherapy Co-inhibitory Immune Checkpoint Targets Immune Checkpoint Immune Checkpoint Targets Immunotherapy Targeted Therapy

### Product Info

**Amount :** Human TIGIT / VSTM3 Recombinant Protein (Fc Tag)(Discontinued) / 200 µg

**Purification :** > 95% as determined by SDS-PAGE.

**Content :** Formulation Lyophilized from sterile PBS,pH7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Amino Acid :** Met1-Pro141

### Application Note

1.Measured by its binding ability in a functional ELISA. 2.Immobilized human CD155a-His at 10<sup>5</sup> µg/mL (100 µL/well) can bind human TIGIT-Fc, the EC50 of human TIGIT-Fc is 0.03-0.2 µg/mL.  
Endotoxin :< 1.0 EU per µg protein as determined by the LAL method.

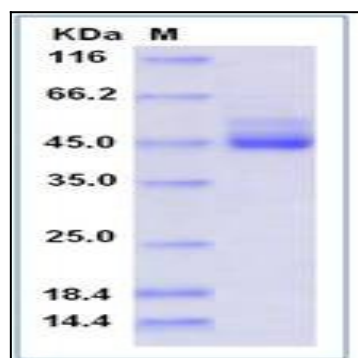


Fig 1: Human TIGIT / VSTM3 Recombinant Protein (Fc Tag)