

# Recombinant Protein Technical Manual Recombinant Mouse TIGIT Protein (His Tag)

**RPES4852** 

#### **Product Data:**

**Product SKU:** RPES4852 **Size:** 10μg

Species: Mouse Expression host: Human Cells

**Uniprot:** NP 001139797

#### **Protein Information:**

Molecular Mass: 13.3 kDa

AP Molecular Mass: 18-22 kDa

Tag: C-6His

**Bio-activity:** 

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per μg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°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.

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

**Formulation:** Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to it for detailed information.

**Application:** 

**Synonyms:** T-cell immunoreceptor with Ig and ITIM domains;TIGIT;V-set and transmembrane

domain-containing protein 3; VSTM3

## Immunogen Information:

**Sequence:** Gly26-Phe135

### Background:

T cell immunoreceptor with Ig and ITIM domains (TIGIT), also called WUCAM, VSIG9 and Vstm3, is a member of the CD28 family within the Ig superfamily of proteins. TIGIT contains an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM), and is expressed on regulatory, memory, activated T cells and NK cells. TIGIT binds to CD155(PVR) that appear on dendritic cells (DC), macrophages and endothelium with high affinity, and CD112(PVRL2) with lower affinity, but not CD113 (PVRL3). TIGIT-Fc fusion protein could interact with PVR on DC and enhance the secretion of ILO, but inhibit the macrophage activation. Mice lacking TIGIT show increased T cell responses and susceptibility to autoimmune challenges, while knockdown of TIGIT with siRNA in human memory T cells did not affect T cell responses.