



Recombinant Protein Technical Manual  
Recombinant Human GITRL/TNFSF18 Protein (His  
Tag)  
RPES4885

Product Data:

**Product SKU:** RPES4885

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9UNG2

Protein Information:

**Molecular Mass:** 15.3 kDa

**AP Molecular Mass:** 16 & 18 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing 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 the printed manual for detailed information.

**Application:**

**Synonyms:** Tumor necrosis factor ligand superfamily member 18;TNFSF18;Activation-inducible TNF-related ligand;Glucocorticoid-induced TNF-related ligand;AITRL; GITRL; TL6

## Immunogen Information:

**Sequence:** Glu74-Ser199

## Background:

TNFSF18 is a single-pass type II membrane protein. It is expressed at high levels in the small intestine, ovary, testis, kidney and endothelial cells. TNFSF18 cytokine binds to TNFRSF18/AITR/GITR. It regulates T-cell responses, and functions as costimulator and lower the threshold for T-cell activation and T-cell proliferation. It is Important for interactions between activated T-lymphocytes and endothelial cells and Promotes leukocyte adhesion to endothelial cells. TNFSF18 mediates activation of NF-kappa-B. As Triggers increased phosphorylation of STAT1 and up-regulates expression of VCAM1 and ICAM1. It also regulates migration of monocytes from the splenic reservoir to sites of inflammation.