



# Recombinant Protein Technical Manual

## Recombinant Human GITR/TNFRSF18 Protein (Fc Tag)

RPES4904

### Product Data:

**Product SKU:** RPES4904

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9Y5U5

### Protein Information:

**Molecular Mass:** 41.2 kDa

**AP Molecular Mass:** 42-50 kDa

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 95 % 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 receptor superfamily member 18; TNFRSF18; Glucocorticoid-induced TNFR-related protein; CD357; TNFRSF18; AITR; GITR

## Immunogen Information:

**Sequence:** Gln26-Gln161

## Background:

Tumor necrosis factor receptor superfamily member 18(Gitr) contains 3 TNFR-Cys repeats and it have four isforms. IsformA、 isformB and isformC is single-pass type I membrane protein and isformD is a secreted protein. The protein is the receptor for TNFSF18. It seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. It mediated NF-kappa-B activation via the TRAF2/NIK pathway. It binds to TRAF1, TRAF2, and TRAF3, but not TRAF5 and TRAF6 and binds through its C-terminus to SIVA1/SIVA. It preferentially expressed in activated T lymphocytes and up-regulated in peripheral mononuclear cells after antigen stimulation/lymphocyte activation.