

Recombinant Human TNFRSF18/GITR/CD357 Protein

Catalog No.: RP01399 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	8784	Q9Y5U5-1

Tags

C-hFc&His

Synonyms

TNFRSF18;AITR;CD357;GITR;GITR-D

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
41.32 kDa	50-55 kDa

Endotoxin

<1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

GITR, also known as TNFRSF18(CD357), belongs to the tumor necrosis factor receptor (TNF-R) superfamily. It is the receptor for TNFSF18. GITR plays a key role in dominant immunological self-tolerance maintained by CD25(+)CD4(+) regulatory T cells. GITR may be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. GITR and its ligand are important costimulatory molecules in the pathogenesis of autoimmune diseases. It also mediates NF-kappa-B activation via the TRAF2/NIK pathway.

Basic Information

Description

Recombinant Human TNFRSF18/GITR/CD357 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Glu161) of human GITR/TNFRSF18 (Accession #NP_004186.1.) fused with a Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human TNFSF18 at 10 μg/mL (100 μL/well) can bind Human TNFRSF18 with a linear range of 0.8-14.5 μg/mL.

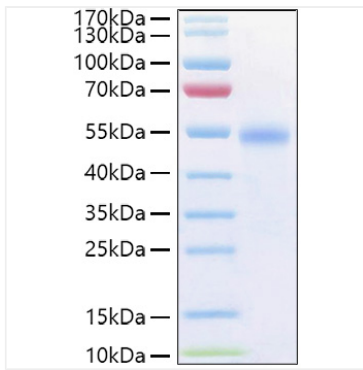
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

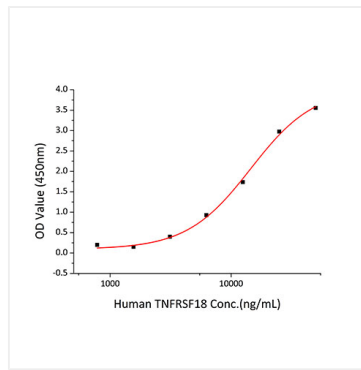
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human TNFRSF18/CD357 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-55kDa.



Immobilized recombinant Human TNFSF18 at 10 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human TNFRSF18 with a linear range of 0.8-14.5 $\mu\text{g/mL}$.