

Recombinant Human TNFRSF18/GITR/CD357 Protein

Catalog No.: RP01399

Sequence Information

Species Gene ID

Human 8784

Swiss Prot Tags
Q9Y5U5-1 C-hFc&His

Synonyms

TNFRSF18, AITR, CD357, GITR, GITR-D

Product Information

Source Purification

HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW Observed MW

41.32 kDa 50-55 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

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.

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.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

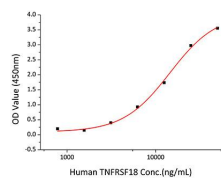
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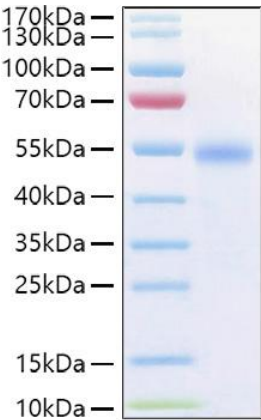
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Validation Data



Immobilized recombinant Human TNFSF18 at 10 µg/mL (100 µL/well) can bind Human TNFRSF18 with a linear range of 0.8–14.5 µg/mL.



Recombinant Human TNFRSF18/GITR/CD357 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.