

Technical Data Sheet

Human GITR (TNFRSF18) (C-Fc)

Catalog Number: 811701, 811702

Size: 25 ug, 100 ug

Target Name: TNFRSF18, AITR, GITR, CD357

Regulatory Status: RUO

Product Details

Application: ELISA, BLI

Format: Liquid, Purified

Expression Host: CHO

Species: Human

Sources: Recombinant Human GITR/TNFRSF18 (Gln26-Glu161) with C-terminus Fc-tag is expressed in CHO cell.

Accession Number: Q9Y5U5

Molecular Weight: The protein has a predicted molecular weight of 40.8 kDa. Under DTT-reducing conditions, it migrates at approximately 45-50 kDa on SDS-PAGE.

Affinity Tag: C-Fc

Purity: >95% based on SDS-PAGE under reducing condition

Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered

Endotoxin level: Not tested

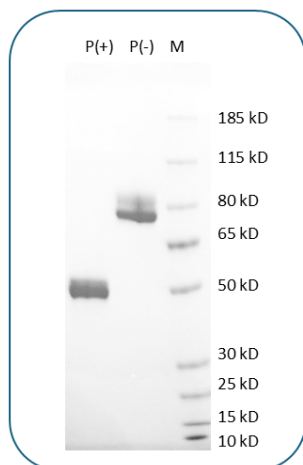
Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

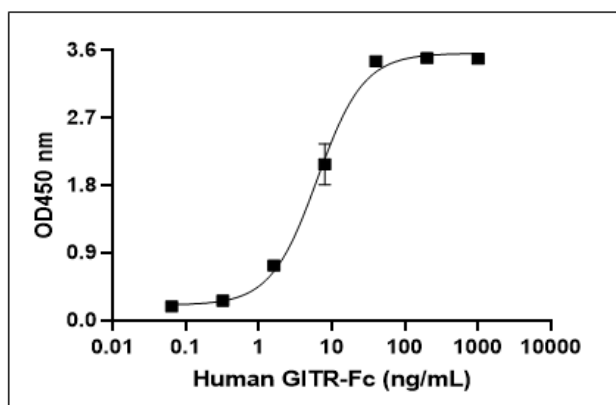
Background Information

GITR (glucocorticoid-induced TNFR-related protein), also known as TNFRSF18 or CD357, is a 25 kD member of the TNF receptor superfamily that acts as the receptor for TNFSF18 (GITRL). It is primarily expressed on activated T cells and regulatory T cells and is upregulated upon T cell receptor engagement. GITR plays a key role in immune regulation by influencing T cell proliferation, TCR-mediated apoptosis, and the function of regulatory T cells, thereby contributing to the maintenance of self-tolerance. GITR signaling activates NF- κ B via the TRAF2/NIK pathway and interacts with TRAF1–3. It is also implicated in T cell–endothelial cell interactions and the pathogenesis of autoimmune diseases.

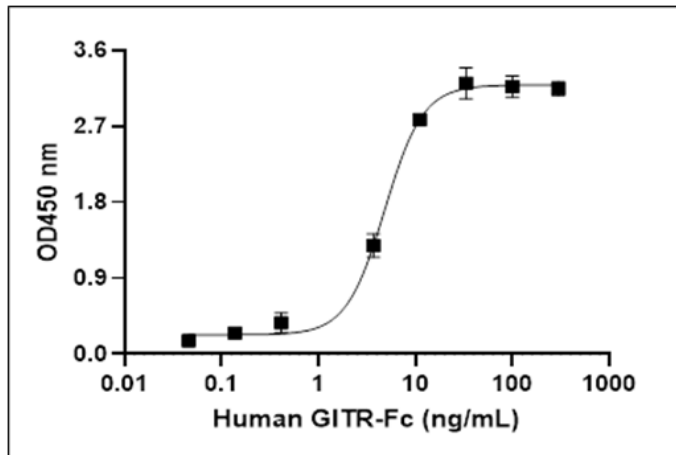
Product Data



Human GITR (TNFRSF18) (C-Fc) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95%.



Biotinylated Human GITRL/TNFSF18 (N-His-Avi) is coated at 2ug/mL (200ng/well). Human GITR/TNFRSF18 (C-Fc) can bind Biotinylated Human GITRL in dose-dependent manner with the ED50 of 5-30 ng/mL



Human GITRL/TNFSF18 (N-His) is coated at 2ug/mL (200ng/well). Human GITR/TNFRSF18 (C-Fc) can bind Human GITRL in dose-dependent manner with the ED50 of 3-20 ng/mL