

## Biotin Human GITR (TNFRSF18) (C-Fc-Avi)

<b>Catalog Number:</b>	811603, 811604
<b>Size:</b>	25 ug, 100 ug
<b>Target Name:</b>	TNFRSF18, AITR, GITR, CD357
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Application:</b>	ELISA, BLI
<b>Format:</b>	Liquid, Biotinylated
<b>Expression Host:</b>	CHO
<b>Species:</b>	Human
<b>Sources:</b>	Recombinant Human GITR/TNFRSF18 (Gln26-Glu161) with C-terminus Fc-Avi-tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.
<b>Accession Number:</b>	Q9Y5U5
<b>Molecular Weight:</b>	The protein has a predicted molecular weight of 42.9 kDa. Under DTT-reducing conditions, it migrates at approximately 45-50 kDa on SDS-PAGE.
<b>Affinity Tag:</b>	C-Fc-Avi
<b>Purity:</b>	>95% based on SDS-PAGE under reducing condition
<b>Formulation:</b>	1xPBS buffer, pH7.4, 0.22 µm filtered
<b>Endotoxin level:</b>	Not tested
<b>Protein Concentration:</b>	25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.
<b>Storage and Handling:</b>	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.

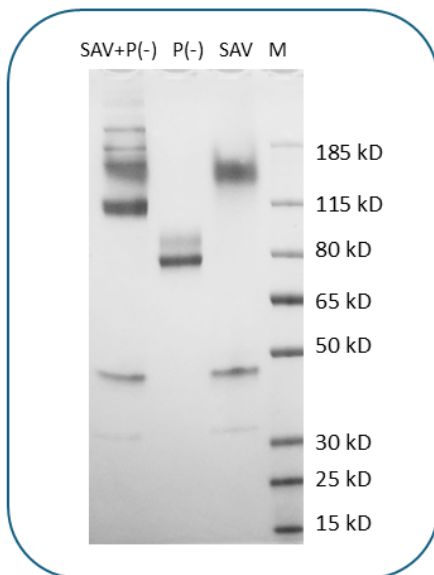
### BACKGROUND INFORMATION

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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-κB 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

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Human GITR (TNFRSF18) Protein (C-Fc-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of the GITR protein exceeds 90%.