InnoCyto Inc.
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Technical Data Sheet

Biotinylated Human GITRL/TNFSF18 (N-His-Avi)

Catalog Number: 606603, 606604
Size: 25 ug, 100 ug
Target Name: TNFSF18, GITR Ligand, AITRL, TL6, GITRL
Regulatory Status: RUO

Product Details

Application: ELISA, BLI
Format: Liquid, Biotinylated
Expression Host: CHO
Species: Human
Accession Number: Q9UNG2
Sources: Recombinant Human TNFSF18 (Glu52-Ser177) with N-terminus His-Avi tag is expressed in CHO cells. This protein was site-specifically labeled with Biotin by BirA ligase.
Molecular Weight: This prtoein has the predicted molecular weight of 18.3 kD. Under DTT-reducing conditions, the protein migrates at approximately 20 kD on SDS-PAGE
Affinity Tag: N-His-Avi
Purity: >95% based on SDS-PAGE under reducing condition
Formulation: 1xPBS buffer, pH7.4, 0.22 μm filtered
Endotoxin level: Less than 0.1 EU/μg protein as determined by the LAL method
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

Human GITRL (Glucocorticoid-Induced TNFR-Related Ligand), also known as TNFSF18, is a member of the tumor necrosis factor (TNF) superfamily. It is a type II transmembrane protein primarily expressed on activated antigen-presenting cells, including B cells, dendritic cells, and macrophages. GITRL binds to its receptor GITR, which is found on activated T cells, regulatory T cells (Tregs), and natural killer (NK) cells. The GITR–GITRL interaction delivers a co-stimulatory signal that promotes T cell activation, proliferation, and survival, while also modulating the suppressive activity of Tregs. This signaling pathway plays a key role in immune regulation, inflammation, and antitumor immunity.

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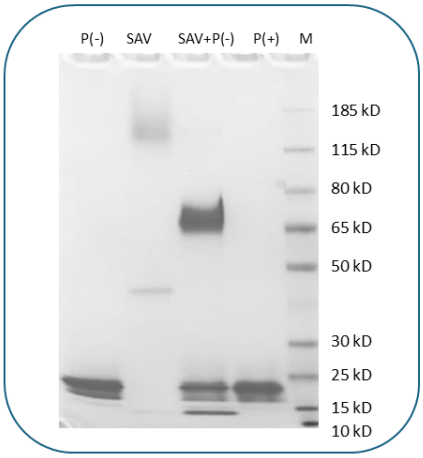
Product Data



Human GITRL (TNFSF18) Protein (N-His-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 GITRL protein exceeds 70%.