

Technical Data Sheet

Human GITRL/TNFSF18 (N-His)

Catalog Number: 606501, 606502

Size: 25 ug, 100 ug

Target Name: TNFSF18, GITR Ligand, AITRL, TL6, GITRL

Regulatory Status: RUO

Product Details

Application: ELISA, BLI

Format: Liquid, Purified

Expression Host: CHO

Species: Human

Accession Number: Q9UNG2

Sources: Recombinant Human TNFSF18 (Glu52-Ser177) with N-terminus His tag is expressed in CHO cells.

Molecular Weight: This protein has the predicted molecular weight of 15.8 kD. Under DTT-reducing conditions, the protein migrates at approximately 20 kD on SDS-PAGE

Affinity Tag: N-His

Purity: >90% 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

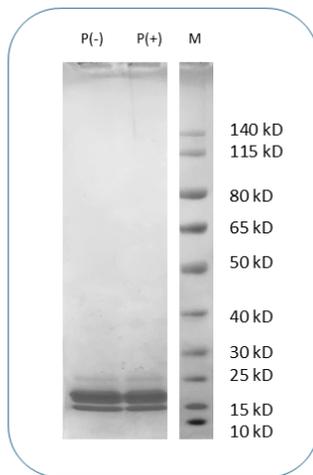
Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.

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.

Product Data



Human GITRL/TNFSF18 (N-His) Protein on SDS-PAGE under non-reducing and reducing conditions. The gel was stained for 1 hour with BlinkBlue Protein Staining Buffer (Catalog 700102). The purity of this protein appears to be greater than 90%.