

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

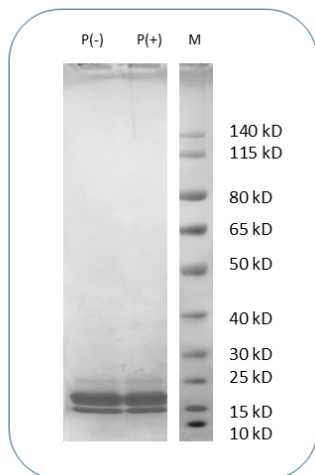
Product Details

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 μ m filtered
Endotoxin level: Less than 0.1 EU/ μ g protein as determined by the LAL method
Protein Concentration: 25 μ g size is bottled at 0.2mg/mL concentration. 100 μ g 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 μ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at \leq -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%.