

HUMAN GITR PROTEIN, MFC-HIS TAG

Cat.#: 11147

Product Name: Human GITR Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: AITR;GITR;TNFRSF18;CD357

Target: GITR

UNIPROT ID: Q9Y5U5

Description: Recombinant human GITR protein with C-terminal mouse Fc and 6xHis tag

Background: This gene encodes a member of the TNF-receptor superfamily. The encoded receptor has been shown to have increased expression upon T-cell activation, and it is thought to play a key role in dominant immunological self-tolerance maintained by CD25(+)CD4(+) regulatory T cells. Knockout studies in mice also suggest the role of this receptor is in the regulation of CD3-driven T-cell activation and programmed cell death. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 50–52 kDa after removal of the signal peptide.

Molecular Characterization: GITR(Gln26–Pro162) mFc(Pro99–Lys330) 6×His

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at –20°C to –80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at –80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

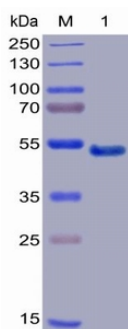


Figure 1. Human GITR Protein, mFc-His Tag on SDS-PAGE under reducing condition.

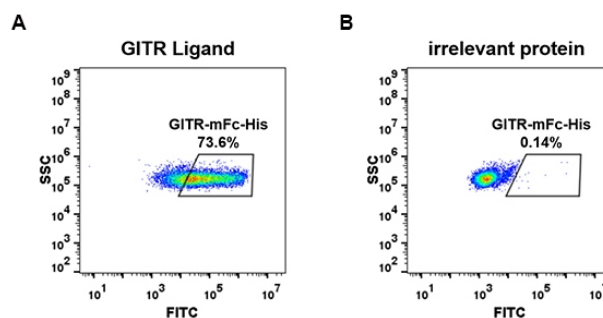


Figure 2. HEK293 cell line transfected with irrelevant protein (B) and human GITR Ligand (A) were surface stained with Human GITR, mFc-His tagged protein (11147) 1µg/ml followed by Alexa 488-conjugated anti-mouse IgG secondary antibody.