

GITR Ligand/TNFSF18 Protein (Primary Amine Labeling), Human, Recombinant (His & Flag),

General Information

Synonyms: TL6; GITR Ligand; TNFSF18; AITRL; GITRL

Protein Construction: Gln50-Ser177

Species: Human

Expression Host: HEK293 Cells

Accession: Q9UNG2

Molecular Weight: 47.5 kDa (predicted). Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity: Immobilized Human GITR, hFc Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human GITR Ligand Trimer, His Tag with the EC50 of 11.4 ng/ml determined by ELISA.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

Endotoxin: < 1 EU/µg by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:
In general, Lyophilized powders are shipping with blue ice.

Protein Background

Glucocorticoid-induced TNFR-related protein (TNFRSF18, GITR, CD357), expressed by T cells, and its ligand (TNFSF18, GITRL), expressed by myeloid populations, provide co-stimulatory signals that boost T cell activity. Due to the important role that GITR plays in regulating immune functions, agonistic stimulation of GITR is a promising

therapeutic concept.

Reference

Richards DM, et al. HERA-GITRL activates T cells and promotes anti-tumor efficacy independent of FcγR-binding functionality. J Immunother Cancer. 2019;7(1):19 Published 2019 Jul 19. doi:10.1186/s40425-019-0671-4

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