

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

General Information

Synonyms:	AITRL;TNFSF18;TL6;GITR Ligand;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 Ligand Trimer, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human GITR, hFc Tag with the EC50 of 0.44µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined 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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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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