

GITRL Protein, Human, Recombinant (mFc)

General Information

Synonyms:	TL6;GITRL;tumor necrosis factor (ligand) superfamily, member 18;AITRL;hGITRL
Protein Construction:	A DNA sequence encoding the human TNFSF18 (NP_005083.3) (Gln72-Ser199) was expressed with the Fc region of mouse IgG2a at the C-terminus. Predicted N terminal: Gln 72
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UNG2
Molecular Weight:	40.9 kDa (predicted); 45.5 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-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, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptor TNFRSF18/AITR/GITR. It has been shown to modulate T lymphocyte survival in peripheral tissues. This cytokine is also found to be expressed in endothelial cells, and is thought to be important for interaction between T lymphocytes and endothelial cells. Cancer Immunotherapy Co-stimulatory Immune Checkpoint Targets Immune Checkpoint Targets Immune Checkpoint Targets Immunotherapy Targeted Therapy

Reference

Liu Y, Tang X, Tian J, et al. Th17/Treg Cells Imbalance and GITRL Profile in Patients with Hashimoto's Thyroiditis. Nicot C, ed. International Journal of Molecular Sciences. 2014;15(12):21674-21686.

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