

## GITR/TNFRSF18 Protein, Cynomolgus, Recombinant (aa 20-156, His)

### General Information

Synonyms:	TNFRSF18;GITR-D;AITR;CD357;GITR
Protein Construction:	Gln20-Pro156
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	XP_005545180.2
Molecular Weight:	15.87 kDa (predicted). Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Immobilized Cynomolgus GITR, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-GITR Antibody, hFc Tag with the EC50 of 7.6ng/ml determined by ELISA (QC Test).</li><li>2. Cynomolgus GITR Ligand, His Tag immobilized on CM5 Chip can bind Cynomolgus GITR, His Tag with an affinity constant of 0.21 µM as determined in SPR assay.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE
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

GITR (glucocorticoid-induced tumor necrosis factor receptor), also known as AITR and TNFRSF18, is a 40 kDa transmembrane glycoprotein that functions in immune regulation. GIRT is a receptor for TNFSF18. Seems to be

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involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway.

### Reference

Knee D A, et al. Rationale for anti-GITR cancer immunotherapy[J]. European Journal of Cancer, 2016, 67:1-10.

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