

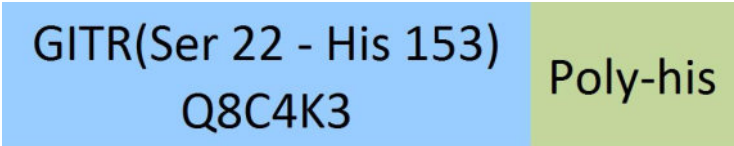
Synonym

AITR,GITR,TNFRSF18,CD357

Source

Mouse GITR, His Tag (GIR-M5220) is expressed from human 293 cells (HEK293). It contains AA Ser 22 - His 153 (Accession # Q8C4K3).  
Predicted N-terminus: Ser 22

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 15.5 kDa. The protein migrates as 27-34 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.  
Contact us for customized product form or formulation.

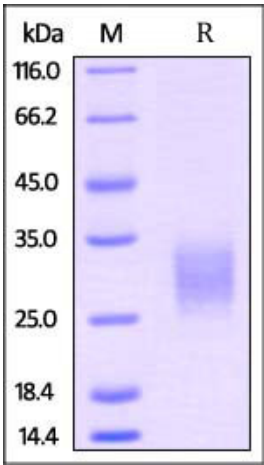
Reconstitution

Please see Certificate of Analysis for specific instructions.  
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

Storage

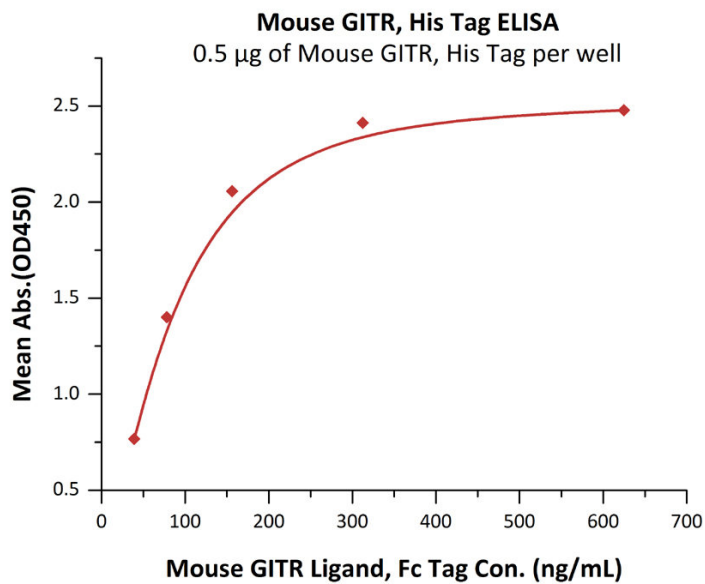
For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
*Please avoid repeated freeze-thaw cycles.*  
This product is stable after storage at:  
• -20°C to -70°C for 12 months in lyophilized state;  
• -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse GITR, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Mouse GITR, His Tag (Cat. No. [GIR-M5220](#)) at 5 µg/mL (100 µL/well) can bind Mouse GITR Ligand, Fc Tag (Cat. No. [GIL-M526x](#)) with a linear range of 5-156 ng/mL (QC tested).

Background

Glucocorticoid-induced TNFR-related protein (GITR) is also known as Tumor necrosis factor receptor superfamily member 18 (TNFRSF18), activation-inducible TNFR family receptor (AITR), CD antigen CD357, which is a member of the tumor necrosis factor receptor (TNF-R) superfamily. GITR is receptor for TNFSF18, which seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. GITR also mediated NF-kappa-B activation via the TRAF2/NIK pathway.

References

(1) [Gurney A.L., et al., 1999, Curr. Biol. 9:215-218.](#)  
(2) [Park M.S., et al., 2007, Yonsei Med J 48 \(5\): 839-46.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.