

Human GITR Ligand / TNFSF18 Protein, Fc Tag

Catalog # AMS.GIL-H526a

For Research Use Only

Description

Source Human GITR Ligand, Fc Tag (AMS.GIL-H526a) is expressed from human 293 cells (HEK293). It contains AA Gln 50 - Ser 177 (Accession# AAH69319.1). Predicted N-terminus: Glu

Predicted N-terminus Glu

Protein Structure

Fc(Thr 106 - Lys 330) P01857	GITR Ligand(Gln 50 - Ser 177) AAH69319.1
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Molecular Characterization This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 46.2 kDa. As a result of glycosylation, the protein migrates as 46 kDa under reducing (R) condition, and 90 kDa under non-reducing (NR) condition (SDS-PAGE).

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >95% as determined by SDS-PAGE.

Bioactivity Measured by its binding ability in a functional ELISA. Immobilized Human GITR, His Tag (Cat. No. AMS.GIR-H5228) at 2 µg/mL (100 µL/well) can bind Human GITR Ligand, Fc Tag (Cat. No. AMS.GIL-H526a) with a linear range of 1-16 ng/mL (QC tested).

Formulation and Storage

Formulation Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. 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.

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

Background Tumor necrosis factor ligand superfamily member 18 (TNFSF18) is also known as Glucocorticoid - induced TNF-related ligand (GITRL or GITR Ligand), Activation - inducible TNF - related ligand (AITRL), which belongs to the tumor necrosis factor family. TNFSF18 is expressed at high levels in the small intestine, ovary, testis, kidney and endothelial cells. TNFSF18 / GITRL is up-regulated after stimulation by bacterial lipopolysaccharides (LPS). TNFSF18 Can function as costimulator and lower the threshold for T-cell activation and T-cell proliferation. TNFSF18 / GITR Ligand is important for interactions between activated T-lymphocytes and endothelial cells. TNFSF18 also mediates activation of NF-kappa-B.

References

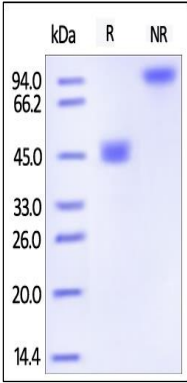
- (1) Tuyaeerts S., et al., 2007, J. Leukoc. Biol. 82:93-105.
- (2) Chattopadhyay K., et al., 2007, Proc. Natl. Acad. Sci. U.S.A. 104:19452-19457.

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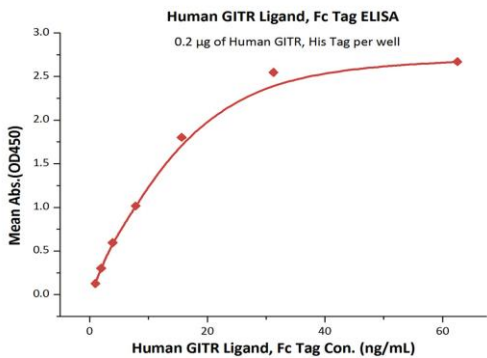
Assay Data

SDS-PAGE Data



Human GITR Ligand, Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity Data



Immobilized Human GITR, His Tag (Cat. No. AMS.GIR-H5228) at 2µg/mL (100 µL/well) can bind Human GITR Ligand, Fc Tag (Cat.No. AMS.GIL-H526a) with a linear range of 1-16 ng/mL (QC tested).

AMSBIO | www.amsbio.com | info@amsbio.com

 **UK & Rest of the World**
184 Park Drive, Milton Park
Abingdon, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

 **North America**
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

 **Germany**
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

 **Switzerland**
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85