

Recombinant Human TNFSF18 protein, Fc-tagged

Cat. No. TNFSF18-37H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF18 protein (Gln50-Ser177), fused to human IgG1 Fc tag at N-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	128
Description	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.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 41.5 kDa. The protein migrates as 45-48 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNFSF18
Official Symbol	TNFSF18
Synonyms	TNFSF18; tumor necrosis factor (ligand) superfamily, member 18; tumor necrosis factor ligand superfamily member 18; AITRL; hGITRL; TL6; AITR ligand; GITR ligand; activation-inducible TNF-related ligand; glucocorticoid-induced TNF-related ligand; glucocorticoid-induced TNFR-related protein ligand; GITRL; MGC138237
Gene ID	8995
mRNA Refseq	NM_005092
Protein Refseq	NP_005083

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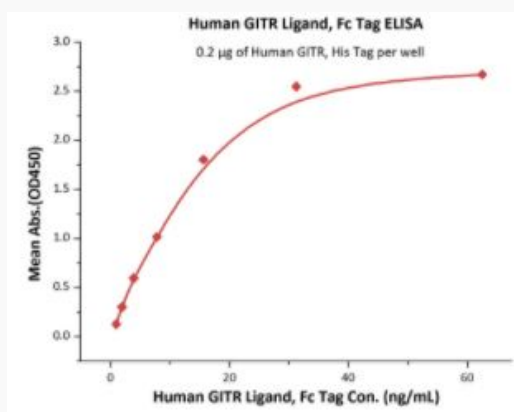
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MIM 603898

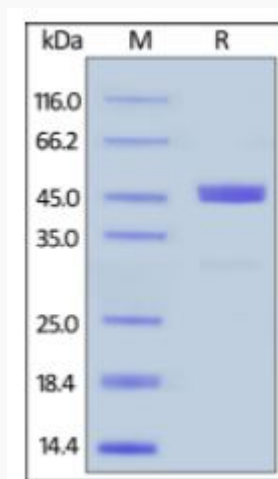
UniProt ID Q9UNG2

**Bioactivity-ELISA of
TNFSF18-37H**



Immobilized Human GITR, His Tag at 2 µg/mL (100 µl/well) can bind Human GITR Ligand, Fc Tag with a linear range of 1-16 ng/mL (QC tested).

**SDS-PAGE of
TNFSF18-37H**



Human GITR Ligand, Fc Tag on SDS-PAGE under reducing (R) condition. The gel

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was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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