

## Recombinant Canine TNFRSF18 protein, His-tagged

**Cat. No.** TNFRSF18-2511C    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Canine TNFRSF18 (Gly23-Pro154) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
<b>Species</b>	Canine
<b>Source</b>	HEK293
<b>ProteinLength</b>	Gly23-Pro154
<b>Description</b>	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.
<b>Predicted N Terminal</b>	Gly23
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 15.8 kDa. The protein migrates as 20-25 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.

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<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;          -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
<b>Reconstitution</b>	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

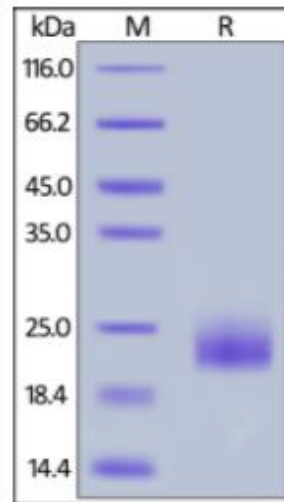
<b>Gene Name</b>	TNFRSF18
<b>Official Symbol</b>	TNFRSF18
<b>Synonyms</b>	GITR
<b>Gene ID</b>	606971
<b>mRNA Refseq</b>	NM_001190744.1
<b>Protein Refseq</b>	NP_001177673.1
<b>UniProt ID</b>	D7F619

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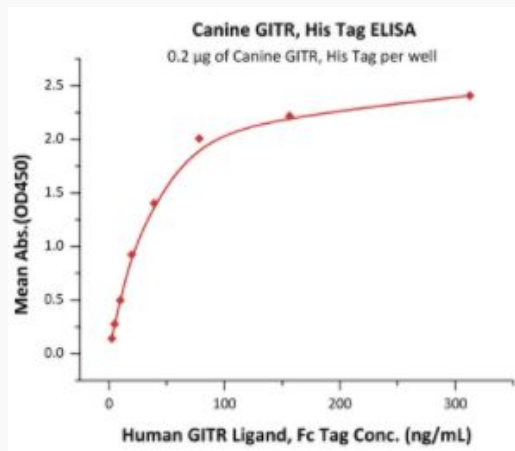
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**SDS-PAGE of  
TNFRSF18-2511C**



Canine 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 90%.

**Bioactivity-ELISA of  
TNFRSF18-2511C**



Immobilized Canine GITR, His Tag at 2 µg/mL (100 µL/well) can bind Human GITR Ligand, Fc Tag with a linear range of 2-40 ng/mL (QC tested).

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