

Recombinant Human TNFRSF18, Fc Chimera

Cat. No. TNFRSF18-1621H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF18 encoding the signal peptide from hCD33 (Met 1 - Ala 16) joined with the extracellular domain of human GITR (amino acid residues 26 - 161) was fused to the Fc region of human IgG1 via a polypeptide linker and expressed in <i>NSO cells</i> .
Species	Human
Source	Mammalian Cells
ProteinLength	45307 a.a.
Description	GITR (glucocorticoid-induced tumor necrosis factor receptor) also known as TNFRSF18, is a surface receptor molecule that has been shown to be involved in inhibiting the suppressive activity of T-regulatory cells and extending the survival of T-effector cells. ¹ GITR is involved in the regulation of T-cell receptor mediated cell death. Constitutive expression of a transfected GITR gene induces resistance to apoptosis induced by anti CD3 monoclonal antibodies. GITR ligand interferes with the suppressor activity of CD4(+) CD25(+) regulatory T-cells.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Weight	The predicted molecular weight of Recombinant Human GITR is Mr 41 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 50 kDa.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Biological Activity	Measured by its ability to bind GITR ligand. Immobilized Human GITR at 2 µg/ml (100 µl/well) can bind Human GITR ligand with a linear range of 0.3 - 20 ng/ml in a functional ELISA assay.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	TNFRSF18 tumor necrosis factor receptor superfamily, member 18 [Homo sapiens]
Synonyms	tumor necrosis factor receptor superfamily, member 18; AITR; GITR; GITR-D; TNFRSF18; activation-inducible TNFR family receptor; glucocorticoid-induced TNFR-related protein; TNF receptor superfamily activation-inducible protein; OTTHUMP00000001519; OTTHUMP00000001520; OTTHUMP00000001521; Activation-inducible TNFR family receptor; Glucocorticoid-induced TNFR-related protein
Gene ID	8784
mRNA Refseq	NM_004195

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Protein Refseq	NP_004186
MIM	603905
UniProt ID	Q9Y5U5
Chromosome Location	1p36.3
Pathway	Cytokine-cytokine receptor interaction
Function	receptor activity; tumor necrosis factor receptor activity

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