

Active Recombinant Mouse Tnfsf18 Protein (127 aa)

Cat. No. Tnfsf18-441T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Activation-Inducible TNF-Related Ligand (rmAITRL) produced in E. coli is a single non-glycosylated polypeptide chain containing 127 amino acids. A fully biologically active molecule, rmAITRL has a molecular mass of 14.5 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
ProteinLength	127
Description	Activation-Inducible TNF-Related Ligand (AITRL), also known as Glucocorticoid-Induced TNF-Related Ligand (GITRL), belongs to the tumor necrosis factor superfamily (TNFSF). AITRL is a Type II single transmembrane protein and shares low conservation within the extracellular domain with other TNFSF members. AITRL is expressed on macrophages, immature and mature dendritic cells and B cells. Its receptor, Activation-Inducible TNFR family Receptor (AITR), is expressed on T lymphocytes, natural killer (NK) cells, and antigen-presenting cells. After binding by AITRL, AITR can be released. AITR activation increases resistance to tumors and viral infections and is involved in autoimmune and inflammatory processes. In addition, activated AITR increases TCR-induced T cell proliferation and cytokine production and rescues T cells and NK cells from apoptosis.

 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

Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 5 ng/mL, measured by the amount of Interleukin-8 produced by PMBC, corresponding to a specific activity of > 2.0 × 10 ⁵ units/mg.
Molecular Mass	14.5 kDa, observed by reducing SDS-PAGE.
AA Sequence	TAIESCMVKFELSSSKWHMTSPKPHCVNTTSDGKLKILQSGTYLIYGQVIPVDKKYIK DNAPFVVQIYKKNDVLQTLMNDFQILPIGGVYELHAGDNIYLFNSKDHIQKTNTYWG IILMPDLPFIS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant mouse Activation-Inducible TNF-Related Ligand (rmAITRL) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmAITRL remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	Tnfsf18 tumor necrosis factor (ligand) superfamily, member 18 [<i>Mus musculus</i>]
Official Symbol	Tnfsf18
Synonyms	TNFSF18; tumor necrosis factor (ligand) superfamily, member 18; tumor necrosis

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factor ligand superfamily member 18; GITR ligand; glucocorticoid-induced TNF-related ligand; glucocorticoid-induced-tumor necrosis factor receptor ligand; Gitrl;

Gene ID 240873

mRNA Refseq NM_183391

Protein Refseq NP_899247

UniProt ID Q7TS55

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