

Datasheet for ABIN2017650
TNFSF18 Protein (AA 47-173)



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Overview

Quantity:	50 µg
Target:	TNFSF18
Protein Characteristics:	AA 47-173
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 5 ng/mL, measured by the amount of Interleukin-8 produced by PMBC, corresponding to a specific activity of > 2.0 x 10 ⁵ units/mg.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	TNFSF18
Alternative Name:	Activation-Inducible TNF-Related Ligand (AITRL) (TNFSF18 Products)
Background:	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

Target Details

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. 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.

Synonyms: Activation-induced TNFR member Ligand, TNFSF18, GITRL, TL-6

Molecular Weight: 14.5 kDa, observed by reducing SDS-PAGE.

UniProt: [Q7TS55](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant mouse Activation-Inducible TNF-Related Ligand (rmAITRL) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmAITRL remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months