

Activation-inducible TNF-related Ligand (AITRL), Mouse

Cat.no. PK0135

Product size: 10ug 50ug 1mg

Source: E. coli

Species: Mouse

Biological Activity: ED50 < 5 ng/mL, measured by the amount of Interleukin-8 produced by PMBC, corresponding to a specific activity of > 2.0 × 10⁵ units/mg.

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

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant mouse Activation-Inducible TNF-Related Ligand (rmAITRL) remains stable up to 6 months at lower than -70°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.

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. Recombinant mouse Activation-Inducible TNF-Related Ligand (rmAITRL) produced in E. coli is a single non-glycosylated polypeptide chain containing 127 amino acids.

Amino Acid Sequence:

00001 TAIESCMVKF ELSSSKWHMT SPKPHCVNTT SDGKCLKILQS

00041 GTYLIYGQVI PVDKKYIKDN APFVVQIYKK NDVLQTLMND

00081 FQILPIGGVY ELHAGDNIYL KFNSKDHIQK TNTYWGIIIM

00121 PDLPFIS

Synonyms: Tumor necrosis factor ligand superfamily member 18, Activation-inducible TNF-related ligand, AITRL, Glucocorticoid-induced TNF-related ligand, hGITRL, TNFSF18, AITRL, GITRL, TL6, UNQ149/PRO175

Note: For research use only, not for use in diagnostic procedure.