

Product Datasheet

RecombinantAITRL,Human (orb1494908)

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. Upon 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 human Activation-Inducible TNF-Related Ligand (rhAITRL) produced in E.coli is a single non-glycosylated polypeptide chain containing 126 amino acids. A fully biologically active molecule, rhAITRL has a molecular mass of 14.3 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Endotoxins

< 0.2 EU/μg, determined by LAL method.

Preservatives

Lyophilized after extensive dialysis against 50 mM Tris, pH 8.0.

Form/Appearance

Lyophilized after extensive dialysis against 50 mM Tris, pH 8.0.

Storage

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

Note

For research use only

Application notes

Reconstituted in ddH2O at 100 μg/mL.

Protein Sequence

METAKEPCM AKFGPLPSKW QMASSEPPCV NKVSDWKLEI LQNGLYLIYG
QVAPNANYND VAPFEVRLYK NKDMIQTLTN KSKIQNVGGT YELHVGDTID
LIFNSEHQVL KNNTYWGIIIL LANPQFI

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Purity	> 95% by SDS-PAGE analysis.
Source	Escherichia coli.
MW	14.3 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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