

Product Datasheet

RecombinantAITRL,Human (orb1494908)

Catalog Number	orb1494908
Category	Proteins
Description	<p>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.</p>
Form/Appearance	Lyophilized after extensive dialysis against 50 mM Tris, pH 8.0.
Buffer/Preservatives	Lyophilized after extensive dialysis against 50 mM Tris, pH 8.0.
Purity	> 95% by SDS-PAGE analysis.
Purification	> 95% by SDS-PAGE analysis.
Protein Sequence	METAKEPCM AKFGPLPSKW QMASSEPPCV NKVSDWKLEI LQNGLYLIYG QVAPNANYND VAPFEVRLYK NKDMIQTLTN KSKIQNVGGT YELHVGDTID LIFNSEHQVL KNNTYWGIIIL LANPQFI
MW	14.3 kDa, observed by reducing SDS-PAGE.

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Application notes	Reconstituted in ddH2O at 100 µg/mL.
Endotoxins	0.2 EU/µg, determined by LAL method.
Source	Escherichia coli.
Biological Activity	ED50 2.0×10^5 units/mg.
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
Expiration Date	6 months from date of receipt.

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