

Overview

Synonyms	Activation-induced TNFR member Ligand, TNFSF18, GITRL, TL-6
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.</p> <p>Recombinant human Activation-Inducible TNF-Related Ligand (rhAITRL) produced in <i>E. coli</i> 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.</p>
Accession No	Q9UNG2
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 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.
Sequence	METAKEPCMA KFGPLPSKWQ MASSEPPCVN KVSDWKLEIL QNGLYLIYGQ VAPNANYNDV APFEVRLYKN KDMIQTLTNK SKIQNVGGTY ELHVGDITDL IFNSEHQVLK NNTYWGIILL ANPQFI

Properties

Measured Molecular Weight	14.3 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE analysis.
Formulation	Lyophilized after extensive dialysis against 50 mM Tris, pH8.0.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Activation-Inducible TNF-Related Ligand (rhAITRL) remains stable up to 6 months at lower than -70°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

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
 Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com