DATASHEET

Recombinant Human Activation-induced TNFR Member Ligand/TNFSF18

CAT. NO. ARP6730

KEY FEATURES

Target	Activation-induced TNFR Member Ligand/TNFSF18	Source/Expression System	E.coli
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHuAITR Ligand/TNFSF18	Synonyms	Activation-Induced TNFR member Ligand, TNFSF18, GITRL, TL-6

BACKGROUND

Human Activation-induced TNFR member Ligand/TNFSF18, also named as AITRL, is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family and it is encoded by the TNFSF18 gene. This cytokine is a ligand for receptor TNFRSF18/AITR/GITR. It has been shown to modulate T lymphocyte survival in peripheral tissues. It is also found to be expressed in endothelial cells, and is thought to be important for interaction between T lymphocytes and endothelial cells. human AITRL/TNFSF18 shares 56% and 60% AA sequence identity with murine and rat TNFSF18, respectively. Recombinant human TNFSF18 is a 14.3kDa protein, containing 126 amino acid residues.

PRODUCT OVERVIEW

Molecular Weight	Approximately 14.3 kDa, a single non-glycosylated polypeptide chain containing 126 amino acids.
Accession	Q9UNG2 Glu74-Ser199
A.A. Sequence	ETAKEPCMAKFGPLPSKWQMASSEPPCVNKVSDWKLEILQNGLYLIYGQVAPNANYNDVAPFEVRLYKNKDMIQTL TNKSKIQNVGGTYELHVGDTIDLIFNSEHQVLKNNTYWGIILLANPQFIS
Purity	＞98% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. The biological activity as determined by stimulation of IL-8 production using human PBMC is in a concentration range of 0.1-10 ng/ml.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, with 150 mM NaCl, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rHuAITR Ligand/TNFSF18 protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

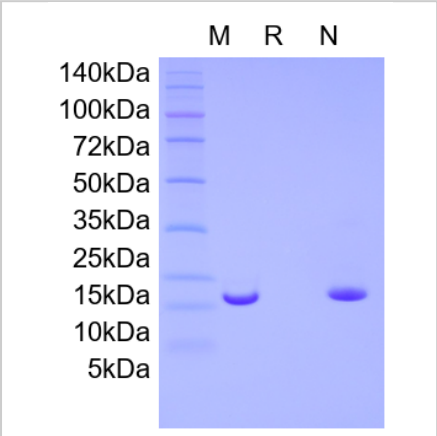
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STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.