

# Recombinant Human Activation-induced TNFR member Ligand/TNFSF18 (rHuAITR Ligand/TNFSF18)

## ChemWhat Technical Data Sheet (TDS)

---

<b>Catalog Number:</b>	103-25
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 14.3 kDa, a single non-glycosylated polypeptide chain containing 126 amino acids.
<b>Quantity:</b>	5µg/20µg/1000µg
<b>AA Sequence:</b>	ETAKEPCMAK FGPLPSKWQM ASSEPPCVNK VSDWKLEILQ NGLYLIYGQV APNANYNDVA PFEVRLYKNK DMIQTLTNKS KIQNVGGTYE LHVGDITDLI FNSEHQVLKN NTYWGILLA NPQFIS
<b>Purity:</b>	> 98 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	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.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 0.1 EU/µg of rHuAITR Ligand/TNFSF18 as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 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.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

---

### ***Human Activation-induced TNFR member Ligand/TNFSF18***

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. Recombinant human TNFSF18 is a 14.3 kDa protein, containing 126 amino acid residues and it shares 56 % and 60 % a.a. sequence identity with murine and rat TNFSF18, respectively.