

TL1A/TNFSF15 Trimer Protein, Rat, Recombinant (His)

General Information

Synonyms:	Vegi;Tnlg1b;Tnfsf15;TL1
Protein Construction:	Thr61-Ile252
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	Q8K3Y7
Molecular Weight:	22.76 kDa (predicted); 32-38 kDa (reducing condition); 70-95 kDa (SEC-MALS)

QC Testing

Biological Activity:	Immobilized Rat TNFSF15, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-TNFSF15 Antibody, hFc Tag with the EC50 of 5.4 ng/ml determined by ELISA. (QC Test) Immobilized Rat TNFSF15, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human DcR3, hFc Tag with the EC50 of 16.8 ng/ml determined by ELISA.
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

TL1A, also known as TNFSF15, is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. It is specifically expressed in endothelial cells. TL1A also can be detected in monocytes, placenta, lung, liver, kidney,

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skeletal muscle, pancreas, spleen, prostate, small intestine and colon. TL1A is a ligand for receptor TNFRSF25 and decoy receptor TNFRSF21/DR6. It mediates activation of NF-kappa-B. It also inhibits vascular endothelial growth and angiogenesis (in vitro). TL1A promotes activation of caspases and apoptosis. It is also found to inhibit endothelial cell proliferation, and thus may function as an angiogenesis inhibitor.

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