

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

General Information

Synonyms:	MGC129935;MGC129934;TL1;VEGI192A;VEGI;TNLG1B;TL1A
Protein Construction:	Leu72-Leu251
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O95150-1
Molecular Weight:	25-35 kDa (reducing condition, due to glycosylation); 60-90 kDa (SEC-MALS)

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human TNFSF15, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Human DR3, hFc Tag with the EC50 of 0.19 µg/ml determined by ELISA. (QC Test)
2. Immobilized Human 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 24.2 ng/ml determined by ELISA.
3. Immobilized Human 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 3.8 ng/ml determined by ELISA
4. Human DR3, hFc Tag captured on CM5 Chip via Protein A can bind Human TNFSF15, His Tag with an affinity constant of 4.09 nM as determined in SPR assay (Biacore T200).
5. Loaded Human DR3, hFc Tag on ProA-Biosensor, can bind Human TNFSF15, His Tag with an affinity constant of 5.04 nM as determined in BLI assay (Gator).
Purity:	> 90% as determined by Bis-Tris PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 20 mM 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, 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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