

TL1A/TNFSF15 Trimer Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	TNLG1B;MGC129935;TL1A;VEGI;TL1;MGC129934;VEGI192A
Protein Construction:	A DNA sequence encoding the Human TL1A / TNFSF15 (NP_005109.2) (Leu72-Leu251) was expressed with a N-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. This construct has a trimer design.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O95150-1
Molecular Weight:	68.51 kDa (predicted); 69.4 kDa (reducing condition, due to glycosylation); 87.3 kDa (SEC-MALS)

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Dcr3 Protein, Human, Recombinant (hFc) (Cat#TMPY-03521) at 2 µg/mL (100 µL/well) can bind TL1A/TNFSF15 Trimer Protein, Human, Recombinant (His & Avi), Biotinylated (Cat#TMPY-07145), the EC50 is 1-3 ng/mL.2. Loaded TL1A/TNFSF15 Trimer Protein, Human, Recombinant (His & Avi), Biotinylated (Cat#TMPY-07145) on SA Biosensor, can bind DR3 Protein, Human, Recombinant (hFc) (Cat#TMPY-01751) with an affinity constant of 2.57 µM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).3. Immobilized Anti-TNFSF15 Antibody, human IgG1 at 2 µg/mL (100 µL/well) can bind TL1A/TNFSF15 Trimer Protein, Human, Recombinant (His & Avi), Biotinylated (Cat#TMPY-07145), the EC50 is 22.1 ng/mL (Routinely tested).
Purity:	≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-MALS.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481