

## TL1A/TNFSF15 Protein, Rat, Recombinant (His), Biotinylated

### General Information

Synonyms:	TL1;Vegi;Tnfsf15;Tnlg1b
Protein Construction:	A DNA sequence encoding the Rat TNFSF15 (Q8K3Y7) (Val76-Ile252) was expressed with a polyhistidine tag at the N-terminus. The purified protein was biotinylated in vitro. This construct has a trimer design.
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	Q8K3Y7
Molecular Weight:	62.37 kDa (predicted); 72.1 kDa (reducing condition)

### QC Testing

Biological Activity:	Immobilized Recombinant Human DCR3/TNFRSF6B Protein (Fc Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Rat TL1A/TNFSF15 Protein (His Tag), Biotinylated, the EC50 is 4-15 ng/mL(QC tested).
Purity:	≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC.
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,

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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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