# Data Sheet (Cat.No.TMPK-00489)

TargetMol

## TL1A/TNFSF15 Protein, Cynomolgus/Rhesus macaque, Recombinant (His)

### General Information

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| Synonyms: | TNFSF15;TNF superfamily member 15;TL1;VEGI192A;TL1A;VEGI-251;VEGI |
| Protein Construction: | Leu72-Leu251 |
| Species: | Cynomolgus,Rhesus |
| Expression Host: | HEK293 Cells |
| Accession: | A0A2K5UA22 |
| Molecular Weight: | 21.52 kDa (predicted). Due to glycosylation, the protein migrates to 25-35 kDa based on Tris-Bis PAGE result. |

### QC Testing

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| Biological Activity: | 1. Immobilized Cynomolgus/Rhesus macaque TNFSF15, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-TNFSF15 Antibody, hFc Tag with the EC50 of 8.0ng/ml determined by ELISA.<br>2. Mouse DR3, His Tag immobilized on CM5 Chip can bind Cynomolgus/Rhesus macaque TNFSF15, His Tag with an affinity constant of 11.70 nM as determined in SPR assay. |
| Purity: | > 90% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent 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

TNF superfamily member 15 (TNFSF15), a cytokine largely produced by vascular endothelial cells and a specific inhibitor of the proliferation of these same cells, can inhibit VEGF-induced vascular permeability in vitro and in

vivo, and that death receptor 3 (DR3), a cell surface receptor of TNFSF15, mediates TNFSF15-induced dephosphorylation of VEGFR2.

Reference

Valatas V, et al. TL1A (TNFSF15) and DR3 (TNFRSF25): A Co-stimulatory System of Cytokines With Diverse Functions in Gut Mucosal Immunity. Front Immunol. 2019 Mar 27;10:583. doi: 10.3389/fimmu.2019.00583. PMID: 30972074; PMCID: PMC6445966.



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