

TL1A/TNFSF15 Protein, Human, Recombinant (His)

General Information

Synonyms:	TL1A;VEGI;VEGI192A;tumor necrosis factor (ligand) superfamily, member 15;TL1
Protein Construction:	Leu72-Leu251
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_005109.2
Molecular Weight:	22.8 kDa (Predicted)

QC Testing

Biological Activity:	Not Tested
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/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

Jin T, et al. (2007) X-ray crystal structure of TNF ligand family member TL1A at 2.1Å. Biochem Biophys Res Commun. 364(1):1-6.

Cassatella MA, et al. (2007) Soluble TNF-like cytokine (TL1A) production by immune complexes stimulated monocytes in rheumatoid arthritis. J Immunol. 178(11):7325-33.

Prehn JL, et al. (2007) The T cell costimulator TL1A is induced by FcγR signaling in human monocytes and dendritic cells. J Immunol. 178(7):4033-8.

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