

TL1A/TNFSF15 Protein, Rat, Recombinant (hFc)

General Information

Synonyms: tumor necrosis factor (ligand) superfamily, member 15

Protein Construction: A DNA sequence encoding the rat TNFSF15 (Q8K3Y7) (Asp94-Ile252) was expressed, fused with the Fc region of human IgG1 at the N-terminus. Predicted N terminal: Asp 94

Species: Rat

Expression Host: HEK293 Cells

Accession: Q8K3Y7

Molecular Weight: 46.5 kDa (predicted); 55 kDa (reducing conditions)

QC Testing

Biological Activity: Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90 % as determined by SDS-PAGE

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, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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.

Shipping:

In general, Lyophilized powders are shipping with blue 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-κappa-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.

Reference

Jin T, et al. (2007) X-ray crystal structure of TNF ligand family member TL1A at 2.1A. *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 Fc γ R signaling in human monocytes and dendritic cells. *J Immunol.* 178(7):4033-8.

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