

CD30 Ligand/TNFSF8 Protein, Human, Recombinant (His)

General Information

Synonyms:	CD153;CD30LGMGC138144;CD30LG;CD30-L;CD30 Ligand;CD30L;TNFSF8
Protein Construction:	Gln63-Asp234
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P32971
Molecular Weight:	20.7 kDa (predicted). Due to glycosylation, the protein migrates to 30-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human CD30 Ligand, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human CD30, hFc Tag with the EC50 of 8.9ng/ml determined by ELISA.
Purity:	> 95% 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

CD30 ligand (CD30L)/TNFSF8 is a type II membrane protein belonging to the TNF superfamily. CD30L is expressed on the cell surface of activated T cells, B cells, and monocytes. The protein is also constitutively expressed on granulocytes and medullary thymic epithelial cells. CD30L is a cytokine that binds to TNFRSF8/CD30. Induces proliferation of T-cells.

Reference

Van d W C A, et al. Understanding CD30 biology and therapeutic targeting: a historical perspective providing insight into future directions[J]. Blood Cancer Journal, 2017, 7(9):e603.

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