

CD6 Protein, Human, Recombinant (His)

General Information

Synonyms:	CD6;TP120;T12
Protein Construction:	His18-Leu402
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P30203-1
Molecular Weight:	42.14 kDa (predicted). Due to glycosylation, the protein migrates to 70-90 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human CD6, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human ALCAM, hFc Tag with the EC50 of 10.7ng/ml determined by ELISA (QC Test).2. Human ALCAM, hFc Tag captured on CM5 Chip via Protein A can bind Human CD6, His Tag with an affinity constant of 0.53 µM as determined in SPR assay.
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

The cell surface glycoprotein CD6 is expressed on leukocytes and mediates T cell trafficking across endothelial cell barriers. CD6 is a lymphocyte surface co-receptor physically associated with the T-cell receptor (TCR)/CD3 complex at the center of the immunological synapse.

Reference

Simões IT, et al. Multifaceted effects of soluble human CD6 in experimental cancer models. J Immunother Cancer. 2020 Mar;8(1):e000172. doi: 10.1136/jitc-2019-000172. PMID: 32217757; PMCID: PMC7174071.

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