Human CD6 Protein

Cat. No. CD6-HM101

Description

Source	Recombinant Human CD6 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains His18-Leu402.
Accession	NP_006716.3
Molecular Weight	The protein has a predicted MW of 42.14 kDa. Due to glycosylation, the protein migrates to 70-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

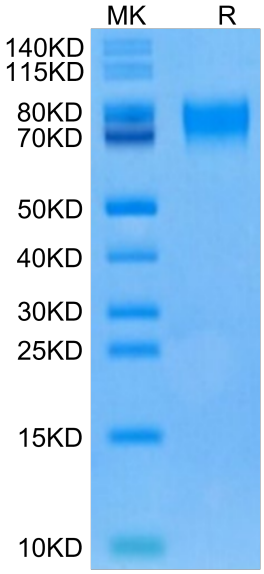
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



Human CD6 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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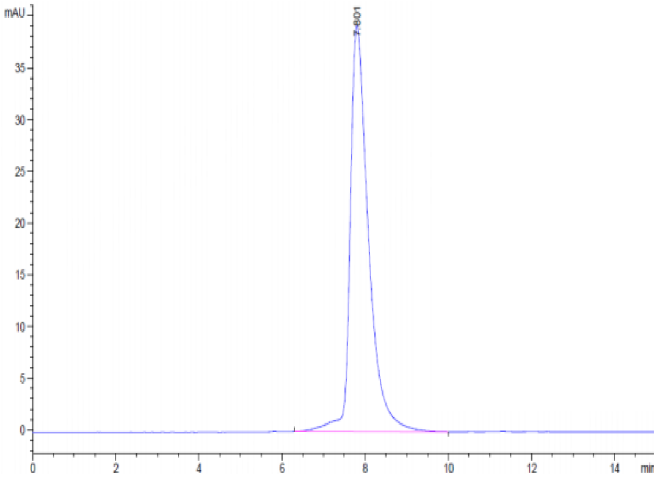
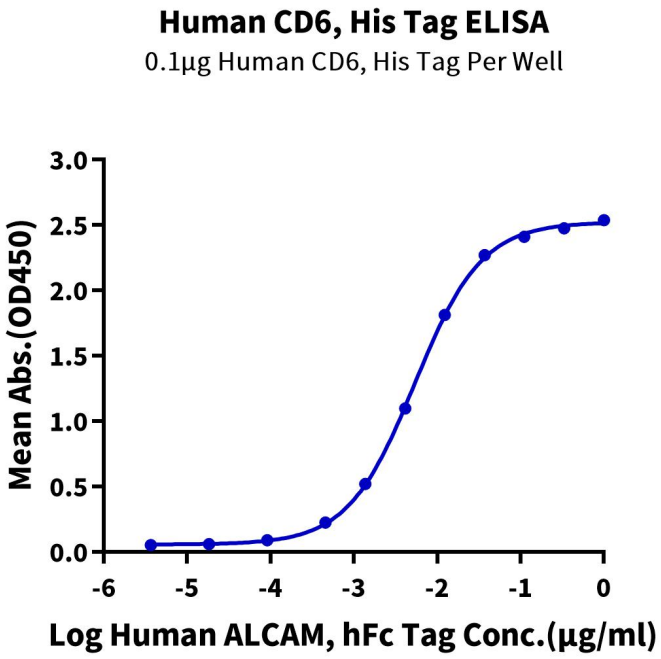
Assay Data



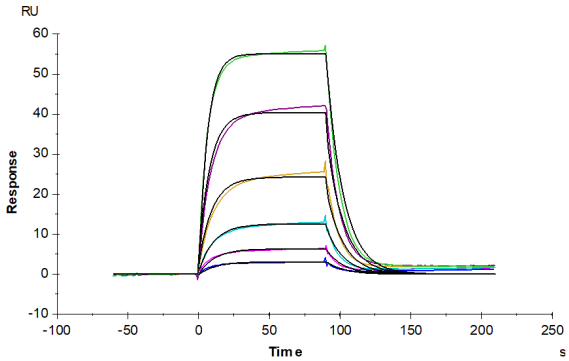
The purity of Human CD6 is greater than 95% as determined by SEC-HPLC.

ELISA Data



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 5.6ng/ml determined by ELISA (QC Test).

SPR Data



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 (Biacore T200).

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