

Human CD6 Protein, Ultra Low Endotoxin



Cat. No. CD6-HM101-UL

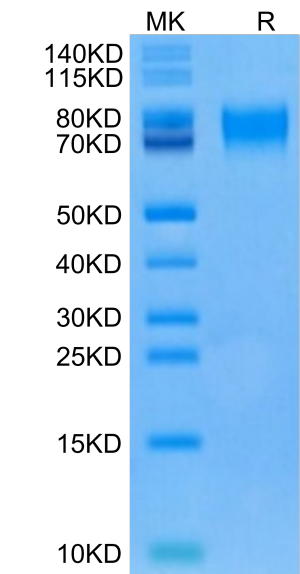
Description	
Source	Recombinant Human CD6 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains His18-Leu402.
Accession	NP_006716.3
Molecular Weight	The protein has a predicted MW of 42.14 kDa. Due to glycosylation, the protein migrates to 70-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

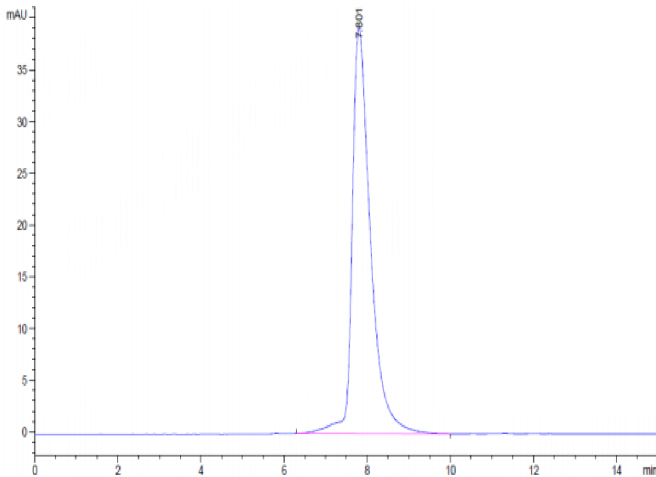
Bis-Tris PAGE



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

SEC-HPLC

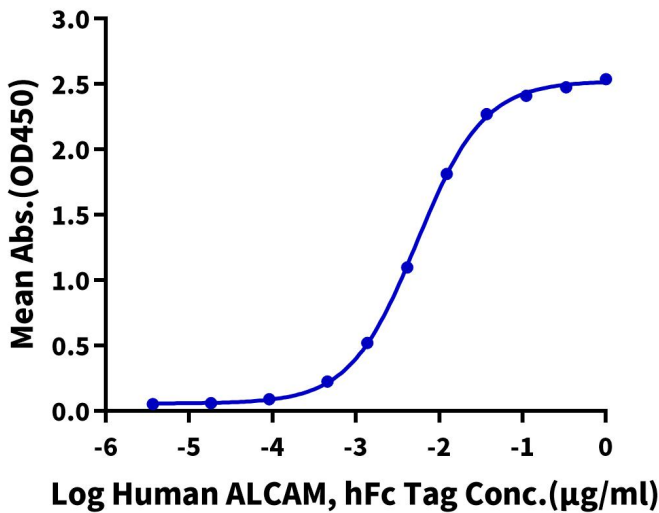
Assay Data



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

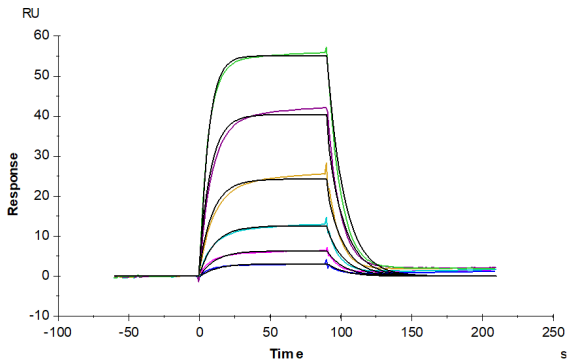
ELISA Data

Human CD6, His Tag ELISA
0.1µg Human CD6, His Tag Per Well



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).