

Human CD83 Protein, Ultra Low Endotoxin



Cat. No. CD8-HM283-UL

Description

Source	Recombinant Human CD83 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus. It contains Thr20-Ala143.
Accession	Q01151-1
Molecular Weight	The protein has a predicted MW of 40.8 kDa. Due to glycosylation, the protein migrates to 55-65 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

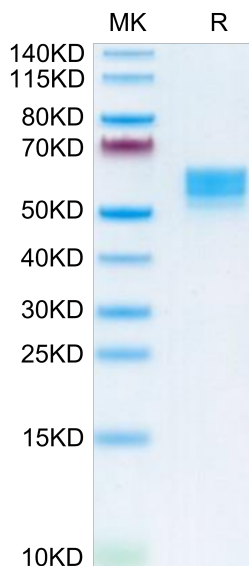
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

CD83 is a member of the immunoglobulin (Ig) superfamily and is expressed in membrane bound or soluble forms. Membrane CD83 (mCD83) can be detected on a variety of activated immune cells, although it is most highly and stably expressed by mature dendritic cells (DC). While CD83 is emerging as a promising immune modulator with therapeutic potential, some important aspects such as its ligand/s, intracellular signaling pathways and modulators of its expression are unclear.

Assay Data

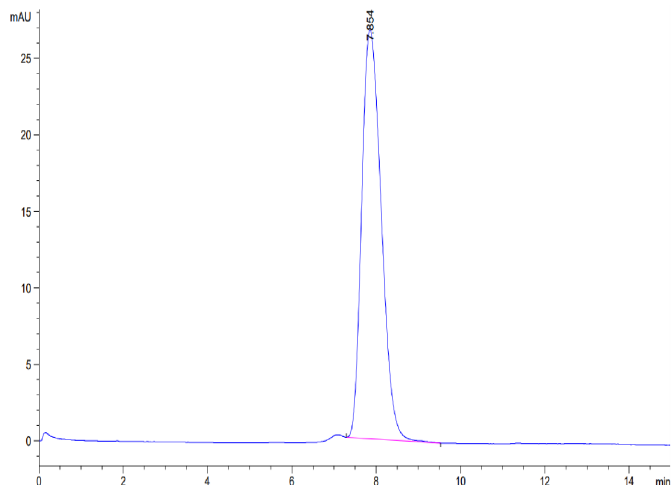
Bis-Tris PAGE



Human CD83 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

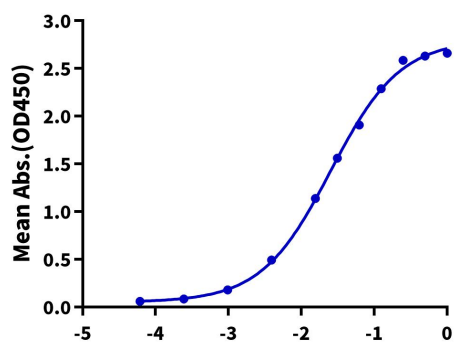


The purity of Human CD83 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD83, hFc Tag ELISA

0.2µg Human CD83, hFc Tag Per Well



Immobilized Human CD83, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-CD83 Antibody, hFc Tag with the EC50 25.3ng/ml determined by ELISA (QC Test).

Log Biotinylated Anti-CD83 Antibody, hFc Avi Tag Conc.(µg/ml)