

Human CD83 Protein

Cat. No. CD8-HM183

Description

Source	Recombinant Human CD83 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Thr20-Ala143.
Accession	Q01151-1
Molecular Weight	The protein has a predicted MW of 15.2 kDa. Due to glycosylation, the protein migrates to 18 kDa and 25-28 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

Formulation and Storage

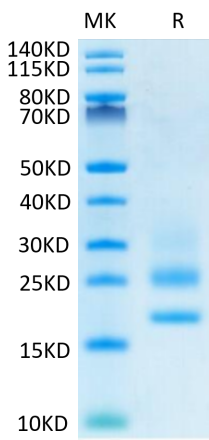
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled 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

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

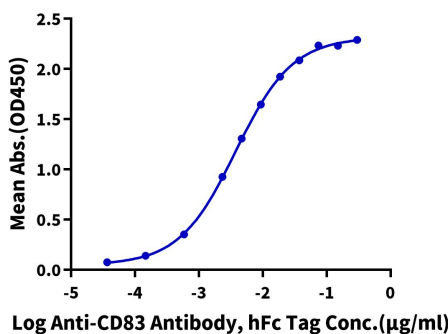
Bis-Tris PAGE



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

ELISA Data

Human CD83, His Tag ELISA
0.1µg Human CD83, His Tag Per Well



Immobilized Human CD83, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD83 Antibody, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA (QC Test).