

CD83 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	insulin;MODY10;ILPR;INS;IDDM2;IDDM1;IDDM;IRDN
Protein Construction:	Thr20-Ala143
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q01151-1
Molecular Weight:	15.2 kDa (Predicted); 18 kDa and 25-28 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human CD83, His Tag at 0.5 µg/ml (100 µl/Well) on the plate. Dose response curve for Anti-CD83 Antibody, hFc Tag with the EC50 of 8.6 ng/ml determined by ELISA.
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 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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

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.

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