

Biotinylated Human B7-1/CD80 Protein

Cat. No. B71-HM480B

Description

Source	Recombinant Biotinylated Human B7-1/CD80 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Val35-Asn242.
Accession	P33681-1
Molecular Weight	The protein has a predicted MW of 26.8 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

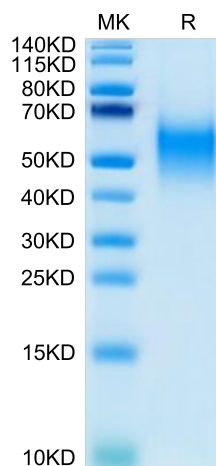
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

Background

Cluster of differentiation 80 (also CD80 and B7-1) is a protein found on dendritic cells, activated B cells and monocytes that provides a costimulatory signal necessary for T cell activation and survival. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4.

Assay Data

Tris-Bis PAGE



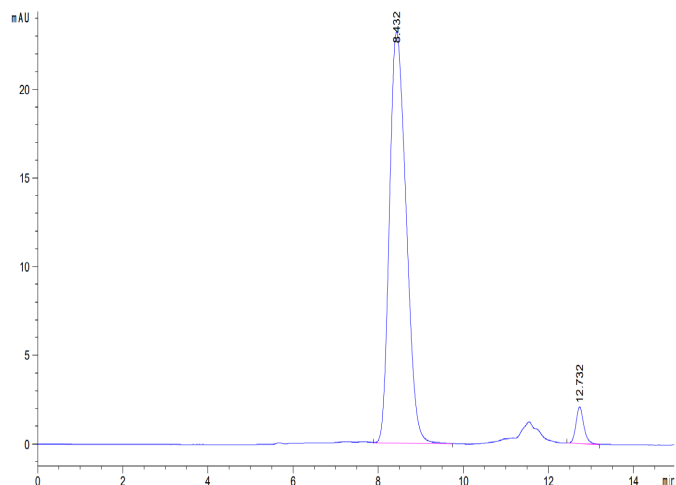
Biotinylated Human B7-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Biotinylated Human B7-1/CD80 Protein

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Assay Data

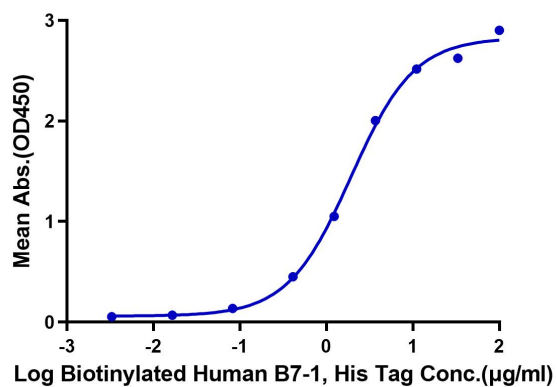


The purity of Biotinylated Human B7-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human B7-1, His Tag ELISA

0.2µg Human CTLA-4, hFc Tag Per Well



Immobilized Human CTLA-4, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human B7-1, His Tag with the EC50 of 1.9µg/ml determined by ELISA.