

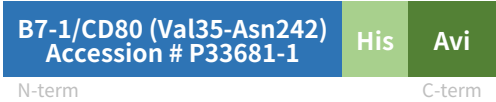
Rev03
 Update: Aug,08,2025

DATASHEET

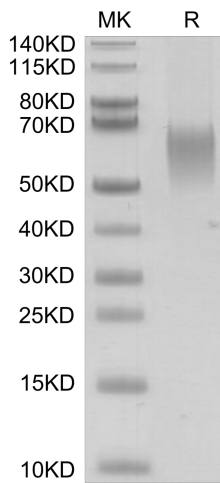
B7-1/CD80, His & Avi, Human

Cat. No.: Z05053

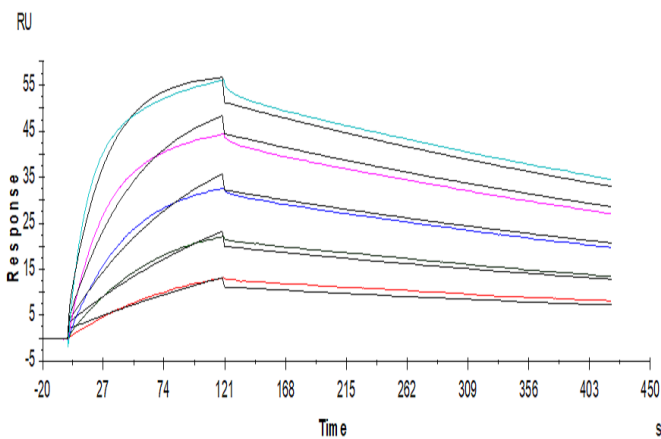
Product Introduction

Species	Human
Protein Construction	 <p>B7-1/CD80 (Val35-Asn242) Accession # P33681-1</p> <p>N-term C-term</p>
Purity	<p>> 95% as determined by BisTris PAGE</p> <p>> 95% as determined by HPLC</p>
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human CTLA4, hFc Tag at 1µg/ml (100µl/well) on the plate can bind B7-1/CD80, His & Avi, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	26.8 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

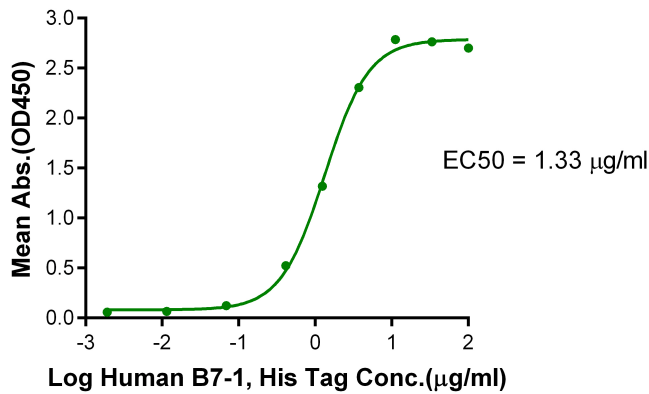
Examples



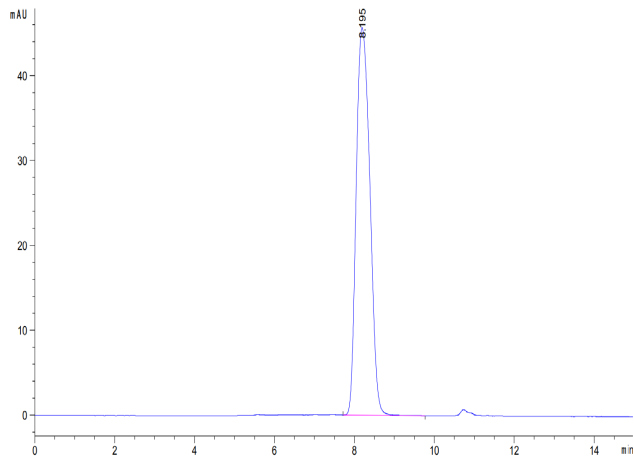
B7-1/CD80, His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



B7-1/CD80, His & Avi, Human, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CTLA4, hFc Tag with an affinity constant of 1.1nM as determined in SPR assay (Biacore T200).



Immobilized Human CTLA-4, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for B7-1/CD80, His & Avi, Human, His Tag with the EC50 of 1.33µg/ml determined by ELISA.



The purity of B7-1/CD80, His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target 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.

Synonyms : CD80 molecule; B7; B71; B7-1; BB1; CD28LG1; CD80; B7.1; CD28LG1; LAB7

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China