

Rev02  
 Update: Aug,08,2025

**DATASHEET**

# B7-1/CD80 hFc Chimera, Human

Cat. No.: Z05052

## Product Introduction

<b>Species</b>	Human				
<b>Protein Construction</b>	<table border="1"> <tr> <td>B7-1/CD80 (Val35-Asn242) Accession # P33681-1</td> <td>hFc</td> </tr> <tr> <td>N-term</td> <td>C-term</td> </tr> </table>	B7-1/CD80 (Val35-Asn242) Accession # P33681-1	hFc	N-term	C-term
B7-1/CD80 (Val35-Asn242) Accession # P33681-1	hFc				
N-term	C-term				
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC				
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.				
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human CTLA4, His Tag at 0.5µg/ml (100µl/well) on the plate can bind B7-1/CD80 hFc Chimera, Human. Test result was comparable to standard batch.				
<b>Expression System</b>	HEK293				
<b>Theoretical Molecular Weight</b>	50.5 kDa				
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.				
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).				
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.				
<b>Storage &amp; Stability</b>	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.				

## 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.**

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