

# Recombinant Human CD80 Protein, Fc/His-tagged, Alexa Fluor 488 conjugated

**Cat. No.** CD80-589HAF488    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alexa Fluor 488 conjugated recombinant human CD80 extracellular domain (Met 1-Asn 242) (NP_005182.1) precursor, fused with the polyhistidine-tagged Fc region of human IgG1 at the C-terminus, was produced in Human Cell.                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 455                                                                                                                                                                                                                                                                             |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | The recombinant human B7-1/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 455 amino acids and predicts a molecular mass of 51.7 kDa. By SDS-PAGE, the apparent molecular mass of rh B7-1/Fc is approximately 80-90 kDa due to the glycosylation. |
| <b>Endotoxin</b>        | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                                                                                                                    |
| <b>Characteristic</b>   | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                       |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                            |
| <b>Storage</b>          | Store it under sterile conditions at -20 to -70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.       |
| <b>Storage Buffer</b>   | Lyophilized from sterile PBS, pH 7.4                                                                                                                                      |
| <b>Reconstitution</b>   | It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| <b>Conjugation</b>      | Alexa Fluor 488                                                                                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                           |
| <b>Gene Name</b>        | CD80 CD80 molecule [ Homo sapiens ]                                                                                                                                       |
| <b>Official Symbol</b>  | CD80                                                                                                                                                                      |
| <b>Gene ID</b>          | 941                                                                                                                                                                       |
| <b>mRNA Refseq</b>      | NM_005191                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_005182                                                                                                                                                                 |
| <b>MIM</b>              | 112203                                                                                                                                                                    |
| <b>UniProt ID</b>       | P33681                                                                                                                                                                    |

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