

# Recombinant Human CD80 Protein, Alexa Fluor 647 conjugated

**Cat. No.** CD80-590HAF647    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alexa Fluor 647 conjugated recombinant human CD80 extracellular domain (Met 1-Asn 242) (NP_005182.1), fused with five amino acids at the C-terminus, was produced in Human Cell.                 |
| <b>Species</b>          | Human                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 214                                                                                                                                                                                              |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | The mature recombinant human B7-1 consists of 214 amino acids and predicts a molecular mass of 25.5 kDa. As a result of glycosylation, rhB7-1 migrates as approximately 45 kDa band in SDS-PAGE. |
| <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 647 via amines<br>Excitation = 650 nm<br>Emission = 668 nm                                                                                |
| <b>Stability</b>        | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                                                   |

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|                       |                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 50 mM Tris, 100 mM NaCl, pH 8.0                                                                                                                  |
| <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 647                                                                                                                                                           |

## GENE INFORMATION

|                        |                                     |
|------------------------|-------------------------------------|
| <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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