

## Recombinant Mouse CD80/B7-1 Protein (Fc Tag)

**Catalog Number:** PKSM040680

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

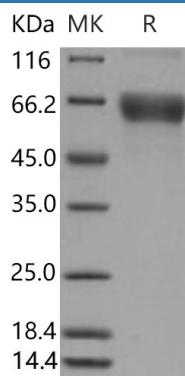
### Description

|                      |  |
|----------------------|--|
| <b>Species</b>       | Mouse  |
| <b>Source</b>        | HEK293 Cells-derived Mouse CD80/B7-1 protein Met 1-Lys 245, with an C-terminal hFc   |
| <b>Calculated MW</b> | 50.7 kDa   |
| <b>Accession</b>     | Q00609-1   |
| <b>Bio-activity</b>  | Immobilized human CTLA4 at 10 µg/mL (100 µl/well) can bind mouse CD80-Fc, The EC <sub>50</sub> of mouse CD80-Fc is 28 ng/mL. |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 90 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.             |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

### Data



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### Background

The B-lymphocyte activation antigen B7-1 (referred to as B7), also known as CD80, is a member of cell surface immunoglobulin superfamily and is expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. As costimulatory ligands, B7-1 which exists predominantly as dimer and the related protein B7-2, interact with the costimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus constitute one of the dominant pathways that regulate T cell activation and tolerance, cytokine production, and the generation of CTL. The B7/CD28/CTLA4 pathway has the ability to both positively and negatively regulate immune responses. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.

### For Research Use Only

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