

# Recombinant Human CD80 protein

## Product Information

<b>Cat</b>	IMP-411
<b>Official Symbol</b>	CD80
<b>Product Overview</b>	Recombinant Human CD80 protein(NP_005182.1)(Met 1-Asn 242) was expressed in HEK293.
<b>Description</b>	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.
<b>Expression System</b>	HEK293
<b>Species</b>	Human
<b>Tag</b>	N/A
<b>Predicted N Terminal</b>	Val 35
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<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>Protein length</b>	Met1-Asn242
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Purity</b>	> 85 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover

*the entire contents.*