

## General Information

### Gene Name Synonym

CD80 molecule; cDNA FLJ75225, highly similar to Homo sapiens CD80 antigen (CD28 antigen ligand 1, B7-1 antigen) (CD80)

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Asn 242) of human B7-1 (NP\_005182.1) precursor was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to bind recombinant human CD28 in a functional ELISA.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Val 35

### Molecular Mass

The recombinant human B7-1 consists of 219 amino acids and has a predicted molecular mass of 25.4 kDa. By reduced SDS-PAGE, the apparent molecular mass of rh B7-1 is approximately 45-48 kDa due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

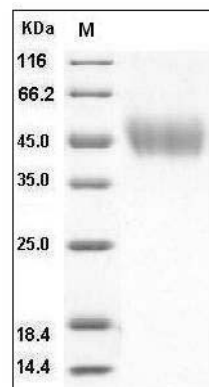
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human CD80 / B7-1 Protein (His Tag) SDS-PAGE