

Human CD80/B7-1 (His & Fc Tag) recombinant protein



Catalog Number: 503507

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 the C-terminal His-tagged Fc region of human IgG1 at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to bind human CD28 in a functional ELISA.
2. Measured by its ability to induce IL2 secretion by Jurkat human acute T cell leukemia cells. The ED₅₀ for this effect is 0.2-0.5µg/mL

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Val 35

Molecular Mass

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.

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

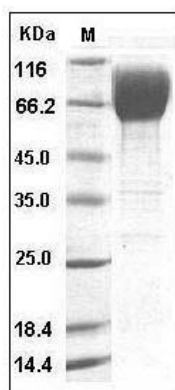
Storage

Store it under sterile conditions at -20°C to -80°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 & Fc Tag) SDS-PAGE