Human CD86 / B7-2 Protein (His Tag),
Biotinylated
Catalog Number: 10699-H08H-B

General Information

Gene Name Synonym:
B7-2, B7.2; B70; CD86LG2; LAB72

Protein Construction:
A DNA sequence encoding the extracellular domain (Met1-His239) of human B7-2 (NP_008820.2) was fused with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro.

Source: Human

Expression Host: Human Cells

QC Testing
Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:
< 1.0 EU per μg 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: Leu 20

Molecular Mass:
The recombinant human B7-2 consists of 228 amino acids and predicts a molecular mass of 26.2 kDa.

Formulation:
Lyophilized from sterile Sterile PBS.

 Normally 5 % - 8 % trehalose, mannotol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

Protein Description

CD86, also known as B-lymphocyte activation antigen B7-2 (referred to as B70), is a member of the cell surface immunoglobulin superfamily. B7-2 exists predominantly as a monomer on cell surfaces and interacts with two co-stimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus induces the signal pathways which regulate T cell activation and tolerance, cytokine production, and the generation of CTL. It is indicated that contacts between B and T helper cells mediated by CD86 encourage signals for the proliferation and IgG secretion of normal B cells and B cell lymphomas. Recent study has revealed that CD86 also promotes the generation of a mature APC repertoire and promotes APC function and survival. CD86 has an important role in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, and thus is regarded as a promising candidate for immune therapy.

References