

Technical Data Sheet

Human B7-2 (CD86) (C-His-Avi)

Catalog Number: 817201, 817202

Size: 25 ug, 100 ug

Target Name: CD86, B7-2, B70, CD28LG2

Regulatory Status: RUO

Product Details

Application: ELISA, BLI

Format: Liquid, Purified

Expression Host: CHO

Species: Human

Sources: Recombinant Human B7-2 (CD86) (Leu20-Pro247) with C-terminus His-Avi-tag is expressed in CHO cell.

Accession Number: P05408

Molecular Weight: The protein has a predicted molecular weight of 29.5 kDa. Under DTT-reducing conditions, it migrates at approximately 45 kDa on SDS-PAGE.

Affinity Tag: C-His-Avi

Purity: >95% based on SDS-PAGE under reducing condition

Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered

Endotoxin level: Not tested

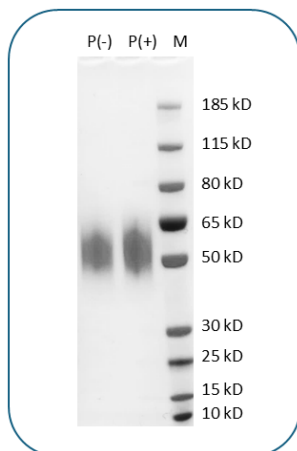
Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

Background Information

CD86 (B7-2) is a member of the immunoglobulin superfamily, expressed predominantly as a monomer on cell surfaces, and interacts with co-stimulatory receptors CD28 and CTLA-4 on T cells. This interaction regulates T cell activation, tolerance, cytokine production, and the generation of cytotoxic T lymphocytes (CTL). CD86 plays a critical role in promoting B and T helper cell interactions, supporting B cell proliferation and IgG secretion, particularly in B cell lymphomas. It also contributes to the development of a mature antigen-presenting cell (APC) repertoire, enhancing APC function and survival. CD86 is involved in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, positioning it as a potential target for immune therapies.

Product Data



Human B7-2 (CD86) (C-His-Avi) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95% based on reducing conditions.