

InnoCyto Inc.

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Technical Data Sheet

Biotinylated Human B7-2 (CD86) (C-Fc-Avi)

Catalog Number: 817503, 817504

Size: 25 ug, 100 ug

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

Regulatory Status: RUO

Product Details

Application: ELISA, BLI Format: Liquid, Biotinylated Expression Host: CHO

Species: Human

Sources: Recombinant Human B7-2 (CD86) (Leu20-Pro247) with C-terminus Fc-Avi-tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.

Accession Number: P05408

Molecular Weight: The protein has a predicted molecular weight of 54.2 kDa. Under DTT-reducing

conditions, it migrates at approximately 75 kDa on SDS-PAGE.

Affinity Tag: C-Fc-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.

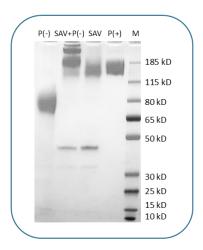
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4° C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution 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

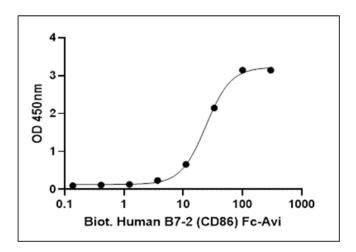
CD86 (B7-2) is a member of the immunoglobulin superfamily, expressed predominantly as a monomer on cell surfaces, and interacts with co-stimulatory receptors CD28 and CTLA-4 on T cells. This interaction regulates T cell activation, tolerance, cytokine production, and the generation of cytotoxic T lymphocytes (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.

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Product Data



Human B7-2 (CD86) (C-Fc-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under reducing (P+) and non-reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of Human CD86 protein exceeds 90%.



Human CTLA4 (C-Fc) is coated at 2 ug/mL (200 ng/well). Biotinylated Human B7-2 (CD86) (C-Fc-Avi) can bind human CTLA-4 in the dose dependent manner with ED50 in the range of 15-50 ng/mL.