

## InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

## **Technical Data Sheet**

Human B7-1 (CD80)(C-Fc)

Catalog Number: 817001, 817002

Size: 25 ug, 100 ug

Target Name: CD80, B7-1, B7, BB1

Regulatory Status: RUO

#### **Product Details**

Application: ELISA, BLI Format: Liquid, Purified Expression Host: CHO Species: Human

Sources: Recombinant Human B7-1 (CD80) (Val35-Asn242) with C-terminus Fc-tag is expressed in

CHO cell.

Accession Number: Q68D85

Molecular Weight: The protein has a predicted molecular weight of 50.1 kDa. Under DTT-reducing

conditions, it migrates at approximately 65 kDa on SDS-PAGE.

Affinity Tag: C-Fc

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.

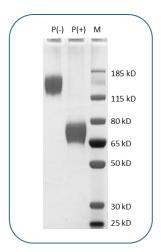
**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial can be stored at  $4^{\circ}$ C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22  $\mu$ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <=  $-70^{\circ}$ 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**

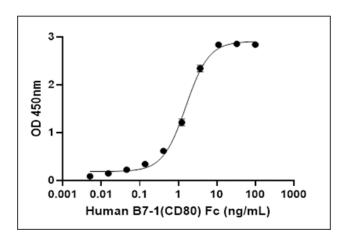
B7-1, also known as CD80, is a cell surface glycoprotein in the immunoglobulin superfamily, expressed on activated B cells, macrophages, and dendritic cells. It interacts with the costimulatory receptors CD28 and CTLA-4 on T cells, playing a pivotal role in regulating T cell activation, tolerance, cytokine production, and the generation of cytotoxic T lymphocytes. Through its interactions with CD28 and CTLA-4, CD80 is involved in both enhancing and inhibiting immune responses, thereby maintaining immune balance. This B7/CD28/CTLA-4 pathway is crucial for controlling immune function and is considered a promising target for therapeutic interventions in autoimmune diseases and cancer.

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### **Product Data**



Human B7-1 (CD80) (C-Fc) 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.



Human CTLA4 (C-His) is coated at 10ug/mL (1ug/well). Human B7-1 (CD80) (C-Fc) can bind human CTLA-4 in the dose dependent manner with ED50 in the range of 2-10 ng/mL.