

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

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| Catalog Number: | 817001, 817002 |
| Size: | 25 ug, 100 ug |
| Target Name: | CD80, B7-1, B7, BB1 |
| Regulatory Status: | RUO |

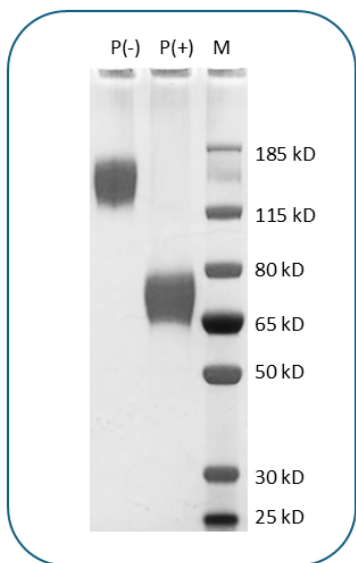
PRODUCT DETAILS

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| 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°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. |

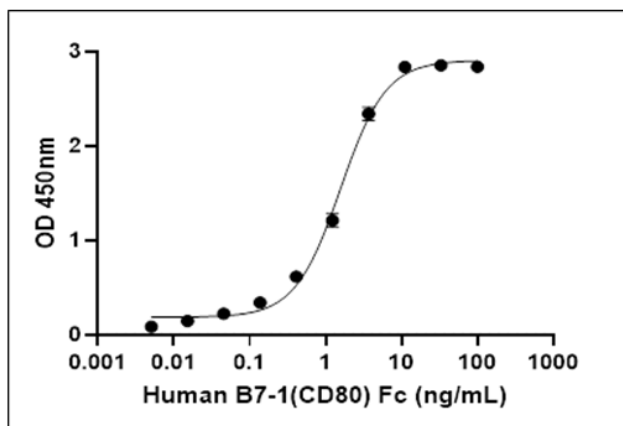
BACKGROUND INFORMATION

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.

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.

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