BioVision

02/14 For research use only

Human CellExp™ CD80, human recombinant

CATALOG #: 7383-10 10 μg

7383-50 50 μg

ALTERNATE NAMES: CD80, B7, B7-1, B7.1, BB1, CD28LG, CD28LG1,

LAB7

SOURCE: HEK 293 cells (Val 35 –Asn 242)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 24.7 kDa. The predicted N-terminus is Val 35. DTT-reduced Protein migrates as 45-75 kDa due to different glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

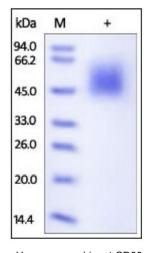
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 μ g/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: B7-1 and B7-2, together with their receptors CD28 and CTLA-4, constitute one of the dominant co-stimulatory pathways that regulate T- and B-cell responses. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7-1 and B7-2 with a 20 - 100 fold higher affinity than CD28 and is involved in the down-regulation of the immune response. B-lymphocyte activation antigen B7-1 (referred to as B7) also known as cluster of Differentiation 80 (CD80), is a member of cell surface immunoglobulin superfamily and is expressed on activated B cells, activated T cells, macrophages and dendritic cells. It is the ligand for two different proteins on the T cell surface: CD28 (for autoregulation and intercellular association) and CTLA-4 (for

prime T cells. CD80 plays a role in induction of innate immune responses by activating NF-kB-signaling pathway in macrophages. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.

BIOLOGICAL ACTIVITY: Measured by its ability to induce IL2 secretion by Jurkat human acute T cell leukemia cells. The ED $_{50}$ for this effect is typically 0.01 - 0.1 μ g/mL in the presence of phytohaemagglutinin.



Human recombinant CD80

RELATED PRODUCTS:

- Human CellExp™ CD223, human recombinant (Cat. No. 7278-10, -50)
- Human CellExp™ CD71, human recombinant (Cat. No. 7279-10, -50)
- Human CellExp[™] CD273, human recombinant (Cat. No. 7369-10, -50)
- Human CellExp™ CD33, human recombinant (Cat. No. 7370-10, -50)
- Human CellExp™ CD36, human recombinant (Cat. No. 7371-10, -50)
- Human CellExp™ CD87, human recombinant (Cat. No. 7372-20, -100)
- Human CellExp[™] CD360, human recombinant (Cat. No. 7373-20, -100)
- Human CellExp™ CD244, human recombinant (Cat. No. 7374-10, -50)
- Human CellExp[™] CD304, human recombinant (Cat. No. 7375-10)
- Human CellExp™ CD319, human recombinant (Cat. No. 7376-10, -50)
- Human CellExp™ CD306, human recombinant (Cat. No. 7377-10, -50)
- Human CellExp™ CD84, human recombinant (Cat. No. 7378-10, -50)
- Human CellExp[™] CD111, human recombinant (Cat. No. 7379-10, -50)
- Human CellExp™ CD48, human recombinant (Cat. No. 7380-10, -50)

FOR RESEARCH USE ONLY! Not to be used in humans.

