

Human CellExp™ B7-1 / CD80, Cynomolgus Recombinant

CATALOG NO:	P1260-10	10 µg
	P1260-50	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 >90% by SEC – HPLC	
MOL. WEIGHT:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 25.8 kDa. The protein migrates as 43-55 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.	
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex.	
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 attenuation of regulation and cellular disassociation). CD80 works in tandem with CD86 to prime T cells. CD80 plays a role in induction of innate immune responses by activating NF-κB-signaling pathway in macrophages. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.	

A

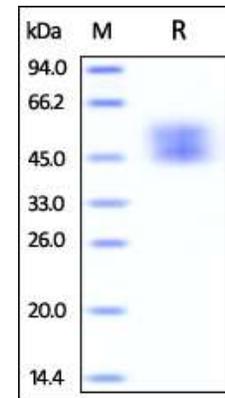


Fig. A. Cynomolgus/Rhesus macaque B7-1(HPLC-verified) on SDS-PAGE under reducing (R) condition

B

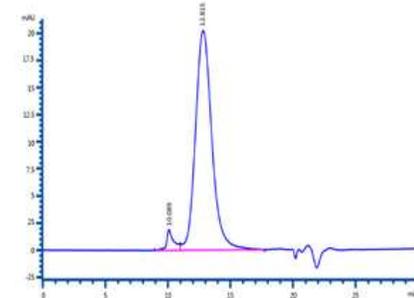


Fig. B. The purity of Cynomolgus / Rhesus macaque B7-1, His Tag was more than 90% as determined by SEC-HPLC.

RELATED PRODUCT:

- Human CellExp™ B7-1 / CD80, mouse recombinant (**Cat. No. P1075**)
- Human CellExp™ CD80, human recombinant (**Cat. No. 7383**)
- Human CellExp™ CTLA-4/CD152, mouse recombinant (**Cat. No. P1081**)
- Human CellExp™ CTLA4/CD152, human recombinant (**Cat. No. 7476**)
- CD80 (Human) ELISA Kit (**Cat. No. K4172**)

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