

B7-1/CD80 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P7321
Synonyms:	rHuB7-1/CD80, Fc Chimera; BB1; CD28LG; CD28LG1; LAB7
Species:	Human
Source:	HEK293
Accession:	P33681 (V35-N242)
Gene ID:	941
Molecular Weight:	75-80 kDa

PROPERTIES

AA Sequence	V I H V T K E V K E V A T L S C G H N V S V E E L A Q T R I Y W Q K E K K M V L T M M S G D M N I W P E Y K N R T I F D I T N N L S I V I L A L R P S D E G T Y E C V V L K Y E K D A F K R E H L A E V T L S V K A D F P T P S I S D F E I P T S N I R R I I C S T S G G F P E P H L S W L E N G E E L N A I N T T V S Q D P E T E L Y A V S S K L D F N M T T N H S F M C L I K Y G H L R V N Q T F N W N T T K Q E H F P D N
Biological Activity	2 µg/mL (100 µL/well) of immobilized recombinant human CTLA-4-Fc can bind biotinylated human B7-1/CD80-Fc with a linear range of 1.22-9.77 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD80 (B7-1) and CD86 (B7-2) are expressed as cell surface molecules by APCs and are responsible for delivering additional or second signals to T cells when they interact with their ligands CD28 and CD152 (CTLA-4). Expression of B7.1 (CD80) and B7.2 (CD86), two related molecules belonging to the Ig superfamily, appears crucial to the ability of the APCs to activate T cells ^[1] .
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REFERENCES

[1]. Vasilevko V, et al. CD80 (B7-1) and CD86 (B7-2) are functionally equivalent in the initiation and maintenance of CD4+ T-cell proliferation after activation with suboptimal doses of PHA. DNA Cell Biol. 2002 Mar;21(3):137-49.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA