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Product datasheet for TP727845

B7-1 (CD80) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human B7-1/CD80 (C-mFC)
Species:	Human
Expression cDNA Clone or AA Sequence:	Val35-Leu242
Tag:	C-mFc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Activation B7-1 Antigen is produced by our Mammalian expression system and the target gene encoding Val35-Leu242 is expressed with a mFc tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	941
UniProt ID:	P33681
Synonyms:	CD80; Activation B7-1 antigen; B7; BB1; CD28LG1; CD28LGB7-1 antigen; T-lymphocyte activation antigen CD80
Summary:	Cluster of Differentiation 80, also called B7-1, is a member of cell surface immunoglobulin superfamily which plays key, yet distinct roles in the activation of T cells. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4. Studies have shown that CTLA-4 binds mostly to CD80. The structure presents two extracellular domains: a membrane distal variable-like domain (IgV) and a membrane proximal Ig constant-like domain (IgC) along with an intracellular domain. Both IgV and IgC consist of anti-parallel beta sandwiches joined by a short linker region. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells.
Protein Families:	Druggable Genome, Transcription Factors, Transmembrane

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Protein Pathways: Allograft rejection, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Toll-like receptor signaling pathway, Type I diabetes mellitus, Viral myocarditis