

## Product datasheet for **TP727845**

### **B7-1 (CD80) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant Human B7-1/CD80 (C-mFc)
<b>Species:</b>	Human
<b>Expression cDNA Clone or AA Sequence:</b>	Val35-Leu242
<b>Tag:</b>	C-mFc
<b>Buffer:</b>	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
<b>Note:</b>	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.
<b>Storage:</b>	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.
<b>Stability:</b>	12 months from date of despatch
<b>Locus ID:</b>	941
<b>UniProt ID:</b>	<a href="#">P33681</a>
<b>Summary:</b>	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.



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