

## 32-8818: Recombinant Mouse B7-1/CD80 (C-6His)

**Gene :** Cd80  
**Gene ID :** 12519  
**Uniprot ID :** Q00609

### Description

Source: Human cells.  
MW :24.6kD.

Recombinant Mouse T-lymphocyte Activation Antigen CD80 is produced by our Mammalian expression system and the target gene encoding Val38-Asn246 is expressed with a 6His tag at the C-terminus. 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. Mouse CD80 consists of an extracellular domain (ECD) with two immunoglobulin-like domains, transmembrane segment, and cytoplasmic domain. B7-1/CD80 and B7-2/CD86, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T- and B- cell responses. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** 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.  
**Amino Acid :** VDEQLSKSVKDKVLLPCRYNSPHEDESEDRIYWQKHDKVLSVIAGKLVWPEYKNRTLYDNTTYSLIILGLVLS DRGTYSVCVVQKKERGTYEVKHLALVKLSIKADFSTPNITESGNPSADTKRITCFASGGFPKPRFSWLENGRELPG INTTISQDPESELYTISSQLDFNTRNHTIKCLIKYGDAHVSEDFTWEKPPEDPPDSKNHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.