

# Product information

## CD80, 35-242aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3663

**Full name:** T-lymphocyte activation antigen CD80

**NCBI Accession No.:** NP\_005182

**Synonyms:** CD80, B7, B7-1, B7.1, BB1, CD28LG, CD28LG1, LAB7

**Description:** CD80, also known as T-lymphocyte activation antigen CD80, is a member of cell surface immunoglobulin superfamily. This protein can bind to either human or mouse CD28 and CTLA-4. It is expressed on activated B cells, activated T cells, and macrophages. The B7/CD28/CTLA4 pathway has the ability to both positively and negatively regulate immune responses. Therefore, it is considered a promising therapeutic target for autoimmune diseases and various carcinomas. Recombinant human CD80, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:** 24.9kDa (216aa)

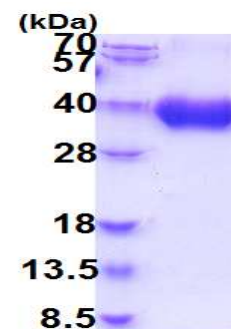
28-40kDa (SDS-PAGE under reducing conditions)

**Predicted N terminal:** Val35

**Purity:** > 95% by SDS - PAGE.

**Concentration:** 0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

**Sequences of amino acids:**

VIHVTKEVKE VATLSCGHNV SVEELAQTRI YWQKEKQKML TMSGDMNIW PEYKNRTIFD ITNLSIVIL ALRPSDEGTY ECVLKYEKD  
 AFKREHLAEV TLSVKADFPT PSISDFEIPT SNIRRIICST SGGFPEPHLS WLENGEELNA INTTVSQDPE TELYAVSSKL DFNMTTNSHF  
 MCLIKYGHRLR VNQTFNWNTT KQEHFPDNLE HHHHHH

**General references:**

Zang X., *et al.* (2007) *Clin Cancer Res.* 13:5271-5279.

Kakoulidou M., *et al.* (2007) *Scand. J. Immunol.* 66:529-537.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**

# Product information

---

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

---

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



*Manufactured for:*

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax.: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)