

# Recombinant mouse B7-1/CD80 protein

Catalog Number: ATGP3353

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

37-246aa

### UniProt No.

Q00609

### NCBI Accession No.

NP\_033985

### Alternative Names

T-lymphocyte activation antigen CD80, Cd80, Cd28l, Ly-53, Ly53, MIC17, TSA1, Activation B7-1 antigen, B7

## PRODUCT SPECIFICATION

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### Molecular Weight

24.7 kDa (216aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Cd80, also known as T-lymphocyte activation antigen CD80, is a member of cell surface immunoglobulin superfamily and is expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. It is the ligand for two different proteins on the T cell surface: Cd28 (for autoregulation and intercellular association) and Ctla4 (for attenuation of regulation and cellular disassociation). This protein also

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plays a role in induction of innate immune responses by activating NF- $\kappa$ B-signaling pathway in macrophages. It is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas. Recombinant mouse Cd80, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

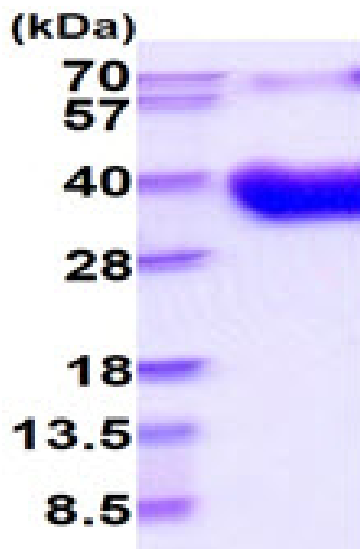
DVDEQLSKSV KDKVLLPCRY NSPHEDESED RIYWQKHDKV VLSVIAGKLGK VWPEYKNRTL YDNTTYSLII LGLVLSDRGT YSCVVQKKER GTYEVKHLAL VKLSIKADFS TPNITESGNP SADTKRITCF ASGGFPKPRF SWLENGRELP GINTTISQDP ESELYTISSQ LDFNTTRNHT IKCLIKYGDA HVSEDFWTEK PPEDPPDSKN HHHHHH

## General References

Peach R., et al. (1995) *J. Biol. Chem.* 270: 21181-21187.  
Suvas S., et al. (2002) *J. Biol. Chem.* 277:7766-7775.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)