# NKMAXBIO We support you, we believe in your research

# Recombinant mouse B7-1/CD80 protein

Catalog Number: ATGP3353

### **PRODUCT INFORMATION**

### **Expression system**

Baculovirus

#### **Domain**

37-246aa

#### UniProt No.

000609

#### **NCBI Accession No.**

NP 033985

#### **Alternative Names**

T-lymphocyte activation antigen CD80, Cd80, Cd28I, Ly-53, Ly53, MIC17, TSA1, Activation B7-1 antigen, B7

# **PRODUCT SPECIFICATION**

#### **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**

#### **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



# NKMAXBio We support you, we believe in your research

# Recombinant mouse B7-1/CD80 protein

Catalog Number: ATGP3353

plays a role in induction of innate immune responses by activating NF-KB-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.

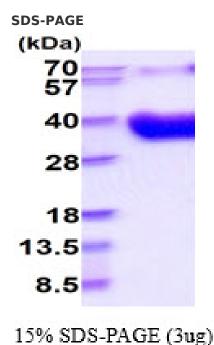
# **Amino acid Sequence**

DVDEQLSKSV KDKVLLPCRY NSPHEDESED RIYWQKHDKV VLSVIAGKLK VWPEYKNRTL YDNTTYSLII LGLVLSDRGT YSCVVQKKER GTYEVKHLAL VKLSIKADFS TPNITESGNP SADTKRITCF ASGGFPKPRF SWLENGRELP GINTTISQDP ESELYTISSQ LDFNTTRNHT IKCLIKYGDA HVSEDFTWEK 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**



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

