Recombinant mouse B7-1/CD80 protein

Catalog Number: ATGP3353

PRODUCT INFORMATION

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

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)

Biological Activity
Measured by its binding ability in a functional ELISA with Mouse CTLA4 (CAT# ATGP4046).

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

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

Recombinant mouse B7-1/CD80 protein

Catalog Number: ATGP3353

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 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

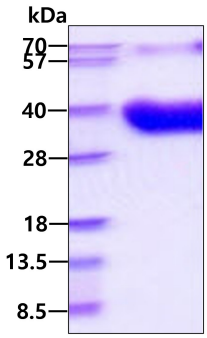
DVDEQLSKSV KDKVLLPCRY NSPHEDESED RIYWQKHDKV VLSVIAGKLK VWPEYKNRTL YDNTTYSLII LGLVLSDRGT YSCVVQKKER GTYEVKHLAL VKLSIKADFS TPNITESGNP SADTKRITCF ASGGFPKPRF SWLENGRELP GINTTISQDP ESELYTISSQ LDFNTTRNHT IKCLIKYGDA HVSEDFTWEK PPEDPPDSKN <HHHHHH>

General References

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

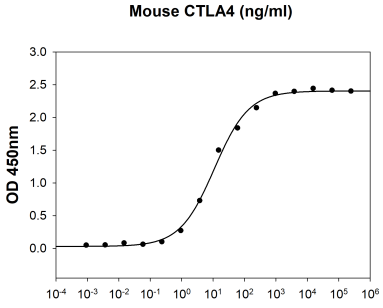
DATA

SDS-PAGE



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

Biological Activity



Mouse CD80 is coated at 2 ug/ml (100 ul/well) can bind Mouse CTLA4 (CAT# ATGP4046) in a Functional ELISA assay.