

Recombinant human B7-1/CD80 protein

Catalog Number: ATGP3663

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

35-242aa

UniProt No.

P33681

NCBI Accession No.

NP_005182

Alternative Names

Activation B7-1 antigen, B7, B7.1, B7-1, BB1, CD28LG, CD28LG1, CD80, CTLA-4 counter-receptor B7.1, FcalphaRI, LAB7, T-lymphocyte activation antigen CD80

PRODUCT SPECIFICATION

Molecular Weight

24.9 kDa (216aa)

Concentration

0.5mg/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 Human CD28 (CAT# ATGP3603)

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

Recombinant human B7-1/CD80 protein

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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.

Amino acid Sequence

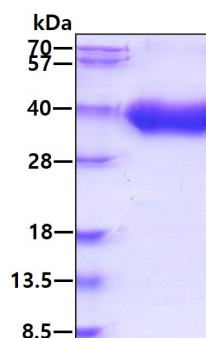
VIHVTKEVKE VATLSCGHNV SVEELAQTRI YWQKEKKMVL TMSGDMNIW PEYKNRTIFD ITNNLSIVIL ALRPSDEGTY
ECVVLKYEKD AFKREHLAEV TLSVKADFPT PSISDFEIPT SNIRRIICST SGGFPEPHLS WLENGEELNA INTTVSQDPE
TELYAVSSKL DFNMTTNHSF MCLIKYGHLR VNQTFNWNNTT KQEHFPDN<LE HHHHHH>

General References

Zang X., et al. (2007) Clin Cancer Res. 13:5271-5279.
Kakoulidou M., et al. (2007) Scand. J. Immunol. 66:529-537.

DATA

SDS-PAGE



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

Biological Activity

Human CD80 is coated at 1ug/ml (100 ul/well) can bind CD28 (CAT# ATGP3603) in a Functional ELISA assay.

