

Recombinant human B7-2/CD86 protein

Catalog Number: ATGP3895

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

31-247aa

UniProt No.

P42081

NCBI Accession No.

NP_787058

Alternative Names

B7-2/CD86, CD86, B7-2, B7.2, B70, CD28LG2, LAB72, T-lymphocyte activation antigen CD86, Activation B7-2 antigen, B70, BU63, CTLA-4 counter-receptor B7.2, FUN-1

PRODUCT SPECIFICATION

Molecular Weight

25.6 kDa (223aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

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

Purity

> 90% 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

B7-2/CD86, also known as T-lymphocyte activation antigen CD86 isoform 1, is a variably glycosylated protein in the B7 family. These family members play important roles in immune activation and the maintenance of immune tolerance. It is expressed on antigen-presenting cells that provides costimulatory signals necessary for T cell

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activation and survival and exists predominantly as a monomer on cell surfaces. Also, it interacts with two co-stimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells that it induces the signal pathways which regulate T cell activation and tolerance, cytokine production, and the generation of CTL. Recombinant Human B7-2/CD86, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

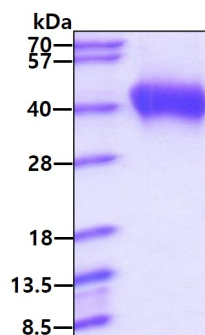
YFNETADLPC QFANSQNQSL SELVVFWDQD ENLVLNEVYL GKEKFDSVHS KYMGRTSFDS DSWTLRLHNL QIKDKGLYQC
IIHHKKPTGM IRIHQMNSEL SVLANFSQPE IPVISNITEN VYINLTCSSI HGYPEPKKMS VLLRTKNSTI EYDGIMQKSQ
DNVTELYDVS ISLSVSFPDV TSNMTIFCIL ETDKTRLLSS PFSIELEDPQ PPPDHIP<HHH HHH>

General References

Grujic M., et al, (2010) Journal of Immunology. 185 (3): 1730-1743.
Kuchroo VK., et al, (1995) Cell 80:707-718.

DATA

SDS-PAGE



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