

Recombinant human CD28 protein

Catalog Number: ATGP3603

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-152aa

UniProt No.

P10747

NCBI Accession No.

NP_006130.1

Alternative Names

T-cell-specific surface glycoprotein CD28 isoform 1, CD28, Tp44

PRODUCT SPECIFICATION

Molecular Weight

42.4 kDa (376aa)

Concentration

1mg/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)

Biological Activity

Measured by its binding ability in a functional ELISA with Human CD80 (CAT# ATGP3663). The ED50 range \leq 60ug/ml.

Tag

hIgG-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 CD28 protein

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Description

CD28, also known as T-cell-specific surface glycoprotein CD28 isoform 1, is one of the proteins expressed on T cells that provide co-stimulatory signals required for T cell activation and survival. T cell stimulation through CD28 in addition to the T-cell receptor (TCR) can provide a potent signal for the production of various interleukins (IL-6 in particular). CD28/B7 interaction has been shown to prevent apoptosis of activated T cells via the up-regulation of bcl-XL. Its ligation has also been shown to regulate Th1/Th2 differentiation. Recombinant human CD28, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

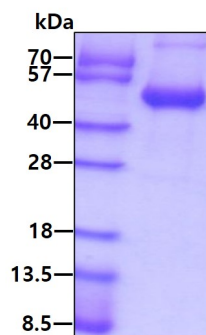
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PCPAPELLGG PSVFLFPPKP KDTLMIS RTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT
VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP
ENNYKTTTPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKLSLSLSPGK HHHHHH>
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General References

Prasad KV., et al. (1994) National Academy. 91: 2834 -2838.
 Okkenhaug K., et al. (1998) J. Biol. Chem. 273: 21194 -21202.

DATA

SDS-PAGE



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

Biological Activity

Human CD80 (CAT# ATGP3663) is coated at 1 ug/ml (100 ul/well) can bind Human CD28. The ED50 range \leq 60ug/ml.

