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)

Tag
hIgG-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
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

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the up-regulation of bcl-XL. It ligation has also been shown to regulate Th1/Th2 differentiation. Recombinant human CD28, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

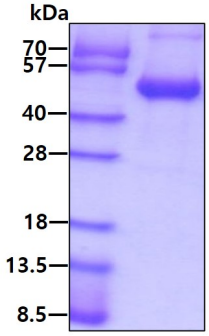
<ADP>NKILVKQ SPMLVAYDNA VNLSCKYSYN LFSREFRASL HKGLDSAVEV CVVYGNYSQQ LQVYSKTGFN CDGKLGNESV TFYLQNLYVN QTDIYFCKIE VMYPPPYLDN EKSNGTIIHV KGKHLCPSPL FPGPSKP<LEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH>

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.