

Active Recombinant Human CD28 protein, hlgG-His-tagged

Cat. No. CD28-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD28 protein, fused to hlgG-His-tag, was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	19-152aa
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. It 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.
Form	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Bio-activity	Measured by its binding ability in a functional ELISA with Human CD80. The ED50 range $\leq 10\mu\text{g/ml}$.
Molecular Mass	42.4 kDa

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AA Sequence	NKILVKQ SPMLVAYDNA VNLSCCKSYN LFSREFRASL HKGLDSAVEV CVVYGNYSQQ LQVYSKTGFN CDGKLGNESV TFYLQNLVYN QTDIYFCKIE VMYPPPYLDN EKSNGTIIHV KGKHLCPSPF FPGPSKP
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method).
Purity	> 90%
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml

GENE INFORMATION

Gene Name	CD28 CD28 molecule [Homo sapiens (human)]
Official Symbol	CD28
Synonyms	T-cell-specific surface glycoprotein CD28 isoform 1; CD28; Tp44
Gene ID	940
mRNA Refseq	NM_006139
Protein Refseq	NP_006130
MIM	186760

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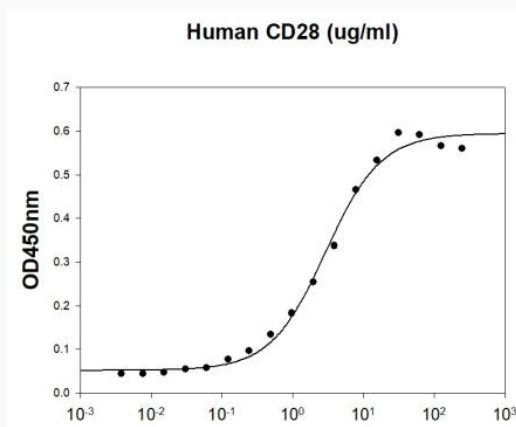
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UniProt ID

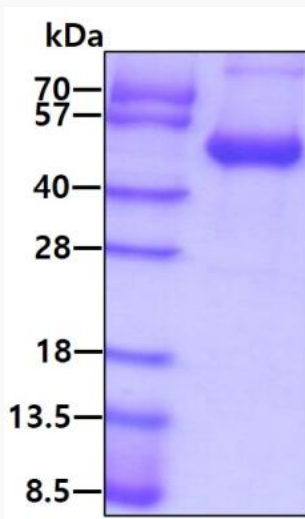
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Biological Activity



Human CD80 is coated at 1 ug/ml (100 ul/well) can bind Human CD28. The ED50 range ≤ 10 ug/ml.

SDS-PAGE



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

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