

# Active Recombinant Human CD28, Fc-tagged, Biotinylated

**Cat. No.** CD28-566H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	The recombinant human CD28-Fc fusion is expressed as a 362-amino acid protein consisting of Asn19 - Pro152 region of CD28 (UniProt accession #P10747) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	19-152 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier and preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Binds to human B7 family ligands, CD80/B7-1 and CD86/B7-2 as well as anti-CD28 monoclonal antibody, human IgG1 with high affinity (KD < 1 nm) determined by elisa. inhibit il-2 secretion in stimulated human jurkat t cell cells.>
<b>Molecular Mass</b>	Calculated molecular mass 40.7 kDa; estimated by SDS-PAGE under reducing condition 55-60 kDa probably due to glycosylation
<b>AA Sequence</b>	NKILVKQSPMLVAYDNAVNLSCKYSYNLFSREFRASLHKGLDSAVEVCVVYGNYSQ QLQVYSKTGFNCDGKLGNE SVTFYLQNLVYVYVQTDIYFCKIEVMYPPPYLDNEKSNG TIIHVKGKHLCPSPFLPGPSKPSTGTHTCPPCPAPEL LGGPSVFLFPPKPKDTLMISR

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TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV LH  
 QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT  
 CLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGN  
 VFSCSVMHEALHNHYTQKSLSLSPGK

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the

**Purity** >95% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** [CD28 CD28 molecule \[ Homo sapiens \]](#)

**Official Symbol** CD28

**Synonyms** CD28; CD28 molecule; CD28 antigen (Tp44); T-cell-specific surface glycoprotein CD28; T cell specific surface glycoprotein; CD28 antigen; Tp44; MGC138290;

**Gene ID** [940](#)

**mRNA Refseq** [NM\\_001243077](#)

**Protein Refseq** [NP\\_001230006](#)

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<b>MIM</b>	186760
<b>UniProt ID</b>	P10747
<b>Chromosome Location</b>	2q33
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent PI3K/Akt signaling, organism-specific biosystem;
<b>Function</b>	SH3/SH2 adaptor activity; coreceptor activity; identical protein binding; protease binding; protein binding; protein homodimerization activity;

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