Active Recombinant Human CD28, Fc-tagged, Biotinylated

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	19-152 a.a.
Form	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).
Bio-activity	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.="">
Molecular Mass	Calculated molecular mass 40.7 kDa; estimated by SDS-PAGE under reducing condition 55-60 kDa probably due to glycosylation
AA Sequence	NKILVKQSPMLVAYDNAVNLSCKYSYNLFSREFRASLHKGLDSAVEVCVVYGNYSQ QLQVYSKTGFNCDGKLGNE SVTFYLQNLYVNQTDIYFCKIEVMYPPPYLDNEKSNG TIIHVKGKHLCPSPLFPGPSKPSTGTHTCPPCPAPEL 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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MIM	186760
UniProt ID	P10747
Chromosome Location	2q33
Pathway	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;
Function	SH3/SH2 adaptor activity; coreceptor activity; identical protein binding; protease binding; protein binding; protein homodimerization activity;

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