

Active Recombinant Human CD28 Protein, Fc & Avi-tagged, Biotinylated

Cat. No. CD28-3908H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human CD28 Protein (Asn 19 - Pro 152) (AAH93698), fused with a human IgG1 Fc tag at the C-terminus, followed by a Avi tag, was expressed in HEK293.
Species	Human
Source	HEK293
Protein Length	Asn 19 - Pro 152
Predicted N Terminal	Asn 19
Form	Lyophilized from sterile 50 mM tris, 100 mM glycine, pH7.5, 10% trehalose.
Bio-activity	Immobilized Human B7-2, Fc Tag at 5µg/mL (100 µL/well) can bind Biotinylated Human CD28, Fc Tag with a linear range of 0.15-5 µg/mL.
Molecular Mass	Recombinant Human CD28 Protein has a calculated MW of 43.6 kDa. As a result of glycosylation, The protein migrates as 55-66 kDa under reducing (R) condition and 110-130 kDa under non-reducing (NR) condition on SDS-PAGE gel.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
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
MIM	186760
UniProt ID	P10747
Chromosome Location	2q33

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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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