

## Active Recombinant Human CD28, HIgG1 Fc-tagged

Cat. No. CD28-378H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human CD28 (AAA60581.1) (Asn19-Pro152) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	19-152 a.a.
<b>Description</b>	The protein encoded by this gene is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Form</b>	Lyophilized from 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells.
<b>Molecular Mass</b>	41 KDa (monomer)
<b>AA Sequence</b>	Asn19-Pro152
<b>Endotoxin</b>	<0.06 eu/µg="" as="" determined="" by="" lal="" test="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.

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<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100µg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CD28 CD28 molecule [ Homo sapiens ]
<b>Official Symbol</b>	CD28
<b>Synonyms</b>	CD28; CD28 molecule; CD28 antigen (Tp44); T-cell-specific surface glycoprotein CD28; T cell specific surface glycoprotein; CD28 antigen; Tp44; MGC138290;
<b>Gene ID</b>	940
<b>mRNA Refseq</b>	NM_001243077
<b>Protein Refseq</b>	NP_001230006
<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

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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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