

Active Recombinant Human CD28, MIgG2a Fc-tagged

Cat. No. CD28-212H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human CD28 (AAA60581.1) (Asn19-Pro152) is fused to the N-terminus of the Fc region of mouse IgG2a.
Species	Human
Source	CHO
ProteinLength	19-152 a.a.
Description	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
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells.
Molecular Mass	41 KDa (monomer)
AA Sequence	Asn19-Pro152
Endotoxin	<0.06 eu/µg="" as="" determined="" by="" lal="" test="">
Purity	>98%, by SDS-PAGE under reducing conditions.

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Stability	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.
Reconstitution	Reconstitute at 100µg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.
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
Pathway	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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