Active Recombinant Human CD86, Fc-tagged, Biotinylated

Cat. No. CD86-584H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human CD86-Fc fusion protein is expressed as a 452 amino acid protein consisting of Ala24 - Pro247 region of CD86 (UniProt accession #P42081) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	24-247 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Binds human CD28 and induces IL-2 secretion by Jurkat human acute T cell leukemia cells
Molecular Mass	Calculated molecular mass 51.1 kDa; estimated by SDS-PAGE under reducing condition ~80 kDa probably due to glycosylation
AA Sequence	APLKIQAYFNETADLPCQFANSQNQSLSELVVFWQDQENLVLNEVYLGKEKFDSVH SKYMGRTSFDSDSWTLRL HNLQIKDKGLYQCIIHHKKPTGMIRIHQMNSELSVLANF SQPEIVPISNITENVYINLTCSSIHGYPEPKKMSV LLRTKNSTIEYDGVMQKSQDNVT ELYDVSISLSVSFPDVTSNMTIFCILETDKTRLLSSPFSIELEDPQPPPDH IPSTGTHT CPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDG

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	VEVHNAKTKP REEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISK AKGQPREPQVYTLPPSREEMTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKT TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQK SLSLSPGK
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	CD86 CD86 molecule [Homo sapiens]
Official Symbol	CD86
Synonyms	CD86; CD86 molecule; CD28LG2, CD86 antigen (CD28 antigen ligand 2, B7 2 antigen); T-lymphocyte activation antigen CD86; B lymphocyte antigen B7 2; B7 2; B7.2; BU63; FUN-1; CTLA-4 counter-receptor B7.2; B-lymphocyte activation antigen B7-2; CD86 antigen (CD28 antigen ligand 2, B7-2 antigen); B70; B7-2; LAB72; CD28LG2; MGC34413;
Gene ID	942
mRNA Refseq	NM_001206924

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Protein Refseq	NP_001193853
MIM	601020
UniProt ID	P42081
Chromosome Location	3q21
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	coreceptor activity; protein binding; receptor activity;

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