

Active Recombinant Monkey CD86 Protein, His-tagged

Cat. No. CD86-11012M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus/Rhesus macaque B7-2, His Tag (MALS verified) is expressed from human 293 cells (HEK293). It contains AA Ala 19 - His 240 (Accession # G7NXR4-1). In the region Ala 19 - His 240, the AA sequence of Cynomolgus and Rhesus macaque B7-2 are homologous. This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ala 19
Species	Monkey
Source	HEK293
ProteinLength	19-240 aa
Description	Cluster of Differentiation 86 (CD86) is also known as B-lymphocyte activation antigen B7-2, is a type I membrane protein that is a member of the immunoglobulin superfamily, and is constitutively expressed on interdigitating dendritic cells, Langerhans cells, peripheral blood dendritic cells, memory B cells, and germinal center B cells. Additionally, B72 is expressed at low levels on monocytes and can be upregulated through interferon γ . CD86 is the ligand for two different proteins on the T cell surface: CD28 (for autoregulation and intercellular association) and CTLA-4 (for attenuation of regulation and cellular disassociation). CD86 works in tandem with CD80 to prime T cells. Recent study has revealed that B7-2 promotes the generation of a mature APC repertoire and promotes APC function and survival. Furthermore, the B7 proteins are also involved in innate immune responses by activating NF- κ B-signaling pathway in macrophages. CD86 thus is regarded as a promising candidate

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	for immune therapy. CD86+ macrophages in Hodgkin lymphoma patients are an independent marker for potential nonresponse to firstline-therapy.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Cynomolgus/Rhesus macaque CTLA-4, Fc Tag at 5 µg/mL (100 µL/well) can bind Cynomolgus/Rhesus macaque B7-2, His Tag (HPLC-verified) with a linear range of 0.312-5 µg/mL.
Molecular Mass	The protein has a calculated MW of 27.3 kDa. The protein migrates as 40-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please 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 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD86 CD86 molecule [<i>Macaca mulatta</i>]
Official Symbol	CD86

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Synonyms	CD86; CD86 molecule; T-lymphocyte activation antigen CD86; CD86 antigen
Gene ID	714390
mRNA Refseq	NM_001042644
Protein Refseq	NP_001036109
UniProt ID	G7NXR4

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