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Human CD86/B7-2 protein, His tag (Animal-Free)

Cat #: PRP2023 Size: 10 μg/ 50 μg/100 μg

Product Information

	Product Name: Human CD86/B7-2 protein, His tag (Animal-Free)		
REF	**Catalog Number:** PRP2023	LOT	**Lot Number:** Refer to product label
	Purity: >95% as determined by SDS-PAGE		
	Storage: Store at -20℃		**Preparation method:** HEK 293 cells
	Shipping: The product is shipped at ambient temperature.		

Background: 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. B7-2 exists predominantly as a monomer on cell surfaces and interacts with two co-stimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus induces the signal pathways which regulate T cell activation and tolerance, cytokine production, and the generation of CTL. It is indicated that contacts between B and T helper cells mediated by CD86 encourage signals for the proliferation and IgG secretion of normal B cells and B cell lymphomas. Recent study has revealed that CD86 also promotes the generation of a mature APC repertoire and promotes APC function and survival. CD86 has an important role in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, and thus is regarded as a promising candidate for immune therapy.

Sequence: Amino acid sequence derived from human CD86 (NP_787058) (Met1-Pro247) was expressed with a 6 His tag at the C-terminus.

Protein length: The recombinant human CD86 consists of 230 amino acids and predicts a molecular mass of 26.2 kD. It migrates as an approximately 42-66 kD band in SDS-PAGE under reducing conditions due to glycosylation.

Endotoxin: < 1.0 EU per μg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Human CD86 protein product should be stored desiccated below -18℃. Upon reconstitution, the protein should be stored at 4℃ between 2 -7 days and for future use below -18℃. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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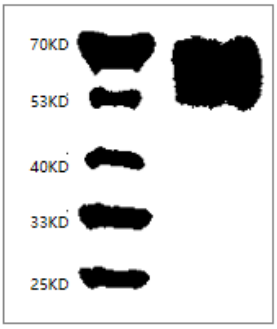
Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human CD86 protein using the buffer we provided not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.

	Fig. SDS-PAGE analysis of Human CD86 protein.

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