Recombinant Human CD86/B7-2 Protein (aa 1-239,His Tag)

Catalog Number: PKSH031474

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

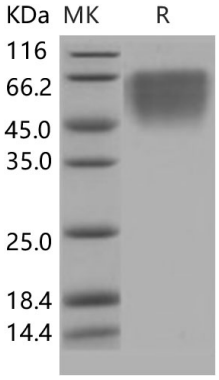
Description

Species	Human
Source	HEK293 Cells-derived Human CD86/B7-2 protein Met 1-His 239, with an C-terminal His
Calculated MW	26.2 kDa
Observed MW	55-60 kDa
Accession	NP_008820.2
Bio-activity	Immobilized human CD86 at 20 μg/ml (100 μl/well) can bind human CD28 with a linear ranger of 32-800 ng/ml.

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

CD86; also known as B-lymphocyte activation antigen B7-2 (referred to as B70); is a member of the cell surface immunoglobulin superfamily. 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.

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