Recombinant Human CD80/B7-1 Protein

Catalog No. PKSH031476

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

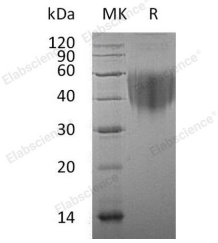
Description

Synonyms	CD80;Activation B7-1 antigen;B7;BB1;CD28LG1;CD28LGB7-1 antigen;T-lymphocyte activation antigen CD80;B7-1;B7.1;CD28LG;LAB7
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Asn 242
Accession	NP_005182.1
Calculated Molecular Weight	25.5 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 85 % 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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% Tween80 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



> 85 % as determined by reducing SDS-PAGE.

Background

The B-lymphocyte activation antigen B7-1 (referred to as B7); also known as CD80; is a member of cell surface immunoglobulin superfamily and is expressed on the surface of antigen-presenting cells including activated B cells;

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macrophages and dendritic cells. As costimulatory ligands; B7-1 which exists predominantly as dimer and the related protein B7-2; interact with the costimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells; and thus constitute one of the dominant pathways that regulate T cell activation and tolerance; cytokine production; and the generation of CTL. The B7/CD28/CTLA4 pathway has the ability to both positively and negatively regulate immune responses. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.

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