Recombinant Human CD80/B7-1 Protein (His Tag)(Active)

Catalog No. PKSH031477

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

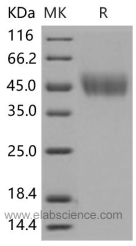
Description

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	25.4 kDa
Observed molecular weight	45-48 kDa
Tag	C-His
Bioactivity	Measured by its ability to bind recombinant human CD28 in a functional ELISA.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Storage	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℃ 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
Reconstitution	Please refer to the printed manual for detailed information.

Data



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, 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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